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## PRODUCT REVIEWS

discontinued development of TrueType fonts.

Image Club president Rod Sorenson announced that the company's future software development efforts will be focused on Type 1 fonts and, in fact, it has stopped the conversion of its typeface library to TrueType.

TrueType font sets can still access the company's library of over 850 fonts using Image Club's Evaluation v3.0 product, which converts between TrueType, Type 1 and Type 3. For a limited time, the company is offering Evaluation v3.0 for only \$19 in purchase of Image Club fonts.

Contact: Rod Sorenson, Image Club Graphics Inc., 401-501-4000

## CD-ROM Updates

We received a call from the folks at P&H Marts who produced the great CD-ROM of all the tax forms in our CD-ROM editions to have forms when we did the same book as last, we moved up the price to \$10, their CD-ROM sells for \$29, we \$544 as previously stated. This makes their new book collecting even more worthwhile. They should be out very soon with a new DTP free CD-ROM full of forms, checklists and brochures. They are also looking for a Canadian counterpart to their upcoming CD-ROM. If you draw into it have a portfolio of coupons, checklists, give them a call. Their number is 1-800-487-1034.

## Correction

The Computer Paper accepts responsibility for a series of typographical errors in the ad of A & S Advanced PG Services Ltd in the September edition. Through a scrape during the proofing stage, the wrong version of the ad was run. The Computer Paper regrets any inconvenience this may have caused.

## What I saw at the Computer Show by Kevin Singh Khosla

The first event I saw at the Computer Show sponsored by Industrial Trade and Consumer Shows, is the Intel (Motor company) was held recently in Vancouver. I managed to get a few hours to see the show, what follows are the highlights I noticed.

By far the hottest thing I saw had to be the Cascade Computer image system on display in the Expo booth. Let me first say that I think this system is flawed, at only because it is not connected to IBM-PCs. This said, what the system does is integrating 1 gigabyte 1 hard drive of these type of documents according systems, but I did not see one in operation.

Basically, it is a system that stores in documents and stores the image as a compressed image file in a single optical 815 MB disk. To call back on image, you simply look up a code number or short name for the file, push a button on the bottom of the proprietary screen, and bingo, your data comes back.

The system will cost around \$17,000 and includes a Canon laser printer to print out documents to the paper world. There is also a \$60,000 network option. The target market for this type of product is lawyers offices and other places with large amounts of documents that must be stored for long periods of time. This system was hot.

The second one I saw, 40 pages a second at 300 dpi (above the same resolution as your fax machine). It is very impressive to see this machine such book a stack of papers at the same speed that book machines can run. They transfer dollar bills. I took home to the day when I can look this type of system into my account and bid it one as.

Continued on page 10

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extensions. It also has multiuser access, allowing for PC files to be opened for shared use, as listed for individual use.

Jim Gallagher, vice president of sales for Ingersoll, says "The additional features of Universal SoftPC 3.0 will provide our customers with the ability to store and retrieve large amounts of information, access World PC networks, and utilize features such as multimedia and file sharing, offered by Apple's System 7.0 operating system."

For Classic and Mac Portable users, there is also the Easy Load SoftPC version 3.5

available, which runs \$199 and only requires one megabyte of memory.

For Macintosh power users working on Motorola 68030-based systems, additional features are available by purchasing the \$699 SoftPC version 3.5. Additional features include VGA/AT graphics and 80387 coprocessors.

Prices at \$699, Universal SoftPC will be available in September 1991, as well as other 3.5 versions.

Contact: Don Gallagher, Ingersoll Software, 415/876-7002

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#### ATARI

### Atari Releases New Control Panel For ST/TT

BYRON, CALIFORNIA, AUG. 30 (ENR)—

After several months of rumors in the software community, Atari U.S. has released the new control panel for the ST and TT machines.

While the custom rumors about the new control panel began last year, most



Atari users presumed that it would only work with the TT and Mega STs. In fact, it will work on all ST, Mega, Mega-2, Mega-3, and TT systems.

So when is the new control panel? Depending on where you first heard about it, the new control panel comes under several names—the "new" control panel, 3-control, and the extended control panel.

Despite these misleading names, in official circles the Atari claims at least—the "extended" control panel—is for ECP for them. The ECP is a replacement for the old control panel used on the ST.

Like the first control panel, the ECP allows users to configure the ST's system, desktop, mouse, key repeat rate, colors, screens, and printers.

What makes the ECP different, says Atari, is that it loads in background CPU

program modules so it needs them. This was done to save the amount of memory required for each different function.

This procedure is similar to that supported by the hard disk as some versions of desktop run on the PC. While the program's extended desktop can do as the amount of memory required for the program, it does have a lot of disk reading and writing.

According to Atari, the new ECP can really be considered a second version of the ECP that can be placed on disk, for use in different situations. For example, where memory is tight, a lightweight ECP can be loaded. When running a simple program, the full ECP suite of software can be loaded.

The new ECP is available for download on most U.S. online services and BBS. On CompuServe, type 8012 for access to the Atari news. On CompuServe type GO ST for the Atari Service.

Contact: Atari Canada, 416/479-1200

#### NEWTECH SHOWS NEW DRIVER

### SW For Amiga Video Transfer



TORONTO, KANSAS, AUG. 30 (ENR)—Newtech, the developer of the Video Transfer for the Amiga, has begun providing version 3.4 of the driver software for the add-on graphics card. First reports suggest that the software greatly enhances the capabilities of the unit.

Newtech's Video Transfer is actually a video controller board for the Amiga that allows the computer to simulate



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the underlying technology are exactly the same," he said.

Commenting about the failed merger, Keith Swanson, president of InterOp, said, "We consider it one of the greatest regrets for Truvision, but it unfortunately does not appear that we will be able to reach agreement on a transaction that would be satisfactory for both sides."

Charles Auld, Truvision's president, agreed with Swanson's assessment. "We have two fine companies," he said, "but I think it is better that they remain independent of each other."

Contact: Keith Swanson, InterOp, 444-1000, 408.

# Help With Acronyms—A PC Glossary

**ST. PETERSBURG, FLORIDA, AND 18 (NS)**—Do you know what a CMO check is, or what the difference is between GMMB, BPP and BPP? Doing Bucky, even in Bruce Boly Software, said he had trouble with the ever-expanding number of acronyms in the IBM personal computer (PC) industry too, and in doing something about it, a new software product, the PC Glossary was born.

PC Glossary is a directory, fast way to look up that acronym using an IBM or compatible PC, according to Bucky. The software will search for the term that

provides a complete explanation of the term, in no end to implications offered by said.

The sources for the definitions come from many sources including "The Software 101 Computer Handbook," "Inside the IBM PC" from Peter Norton, "Qar's Computer User's Dictionary," and the "Dictionary of Computing" by IBM.

The software also offers acronym tables. These tables include the ASCII control codes, bytes or computer component component organizations, data bus lines, the extended ASCII character set, floppy disk specifications, hard disk specifications, IBM PC/XT models, disk data transfer rates, language support lists, network

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image superior automation," he said. Referring to Barfield's new business ventures, Barfield, vice president and general manager of Barfield's spreadsheet business unit, said, "Barfield has a heritage of providing superior value in all its offerings."

Barfield is a software development company of software and programming software products. Some of the offerings are: Cms, Database, ObjectVision, Turbo Pascal. Barfield is based in Toronto and Quebec City.

The company is in the process of purchasing Alpha-Tec, best known for its IMAGE line of products, and has already announced a MS/DOS for Windows product.

Contact: James Davidson (Barfield), Tel. 416-293-6761, Fax: 416-293-6800.

### Quantix Pro Beats 1-2-3 in InfoWorld And User Group

40000 VALLEY CALIFORNIA, SEP 8 (ENR)—Barfield is beating the Quantix Pro IBM personal computer spreadsheet product has outsold Lotus 1-2-3 in a leading computer industry journal's comparison rating. InfoWorld rated Quantix Pro 4.1 in 5.7 for Lotus 1-2-3 Release 2.0 (spreadsheet on 286), InfoWorld, Aug. 28, 1987.

Barfield says this marks the fourth time since Quantix Pro's entry on the market two years ago that the product has been rated higher by InfoWorld than the industry data sheet spreadsheet standard, Lotus 1-2-3. In fact, Barfield says Quantix Pro has also been named InfoWorld's "Super Computer Best." The unit proved to be superior to computer names who claimed the Quantix Pro IBM compatible unit group. One of the largest user groups in the Los Angeles area, led by Steve Blank, who also reviews the PC World magazine, is a group sponsored by a "Globe View" between Lotus 1-2-3 and Barfield's Quantix Pro. Both companies came out side by side on progress screens displayed before the feature the two products.

Blank expressed in the group's conclusion that the demonstration and in fact by Lotus that computer officials became quite happy. Barfield claimed a meeting of the user group and user members previously attempting to make computer copies of 1-2-3 was in a drawing of the client and his software was lost by other group members, is unable to explain to the user group.

Interest in the Quantix Pro/1-2-3 comparison by InfoWorld professionals was stimulated in part by the fact that Barfield is taking a "back and forth" test against Barfield over the company's Quantix Pro product.

After Lotus who against Barfield to use a same structure in the Barfield product that has the same window and command structure in the Lotus 1-2-3 product.

In June, a final three thousand members who closely follows the top 1000 members. "By comparing the means, variance from the rest of the product, Lotus also another level of observation that may range on prices rather than copyright holders who."

A second trial was between the Quantix Pro and Lotus 1-2-3. The Lotus and IBM 80286 stopped marketing as spreadsheet product and recommended customers go to Lotus. Kim on which Barfield, Barfield's President and Chief Executive Officer Philip Bickel was reported by Barfield as saying, "It is the prototype of the thing."

Members reported Lotus and in a meeting of the Phoenix User Group in July that a hierarchy of commands based on Lotus members should not be comparable, and it could be thousands if they become comparable. Lotus and this, in the Lotus and against Barfield, Barfield is using a hierarchy based on commands from a Lotus user based on functionality.

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## NEWSBYTES

Kids' relief: that Redwood mouse is willing to tell tales a-revvin', but Lotus won't let you even close comments and we are also on our toes. "We could easily just assume that part of the program from the Quattro Pro product, and most of our users would not notice," Kohn said.

Redwood claims one million users have switched to Quattro Pro. The company quotes Paul Jones, senior vice president for Software, Management, Systems Operations at Hewlett-Packard Ltd. Business as saying, "We switched to Quattro Pro from Lotus 1-2-3. Microsoft's Quattro Pro provides the expense-free flexibility that we need, including efficient memory management, high-quality graphics and spreadsheet publishing."

Quattro Pro has received an impressive 48 major licensed industry accolades and product, earning Kohn more in accolades in October, says Redwood. Redwood says Quattro Pro, a market research firm, which said Quattro Pro is the only software product to achieve a 50 percent worldwide market share in its first full calendar year on the market.

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### First Mouse For "Kids" Introduced By Logitech

ORLANDO,  
FLORIDA, SEP 12  
(NSR)—Logitech,  
known for its  
production of a  
computer input  
device commonly  
called a mouse, has  
introduced the  
Kids Mouse, a



mouse it claims is the first developed  
especially for children. It works with PC.

Logitech says the mouse is ergonomically  
designed to fit the smaller hands. Looks like  
a friendly mouse and has two buttons "but"  
this can be set to act as one so children can  
press either "set" and get the same result.  
The mouse is intended as the child mouse  
type that some mice in advance it, which  
prevents the mouse from allowing any other  
mouse or another already installed on the  
computer, the company said.

The mouse has a lifetime warranty and is  
built in withstand years of rough treatment,  
the company said.

Yves M. M. M., product marketing  
associate at Logitech, said, "We developed  
Kids Mouse in response to the growing use  
of computer technology in both the home  
and classroom. Maximizing this technology  
for children and help prepare them for the  
important task of driving their computers as  
adults."

The Kids Mouse has a retail price of  
\$29 and comes with Mouseware for Kids  
software and a Kids Mouse User's Guide  
within the children, the company said. It  
has a 1/2 to 1/4-inch small output and is fully  
Microsoft-compatible, Logitech said.

The Microsoft Mouseware Kit from First  
Byte, an educational program for  
development, of reading and problem-  
solving skills. It also includes a wide range  
mouse Logitech said.

The mouse is IBM personal computer  
(PC)-compatible and requires DOS 3.0, two  
floppy disk drives or one hard disk and a  
floppy disk drive, the company said.

Logitech said the mouse should be available  
through Logitech dealers and distributors in  
December of this year—just in time for the  
holiday season.

Contact Jim Kohn, Logitech, 510-955-4000  
ext. 1051, Fax: 510-955-3600

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## NEW FOR PCs: Logitech Fotomath Digital Camera

Logitech Incorporated, also in Fremont, Calif., has taken the computer pointing and clicking devices, the mouse and Joystick, a portable digital camera for use with IBM PCs and compatibles. Fotomath allows users to make photo graphs and download them directly into Logitech's Fotomath, a Windows-based image editing software program.

Using Fotomath, images can be stored in a standard image file format and used for applications such as desktop publishing, database or graphics presentation graphics. Fotomath can store up to 32 images on an internal RAM chip, and does not use any type of removable media, so it does not create digital camera products.

Once the images are stored, they can be transferred to a desktop laptop, portable or notebook computer through the computer's serial port. No intermediate hardware is required. Since Fotomath is a digital camera, no optical boards or driver problems are involved, the company claims.

The average image requires 64-128 kilobytes of disk storage space, more than has been transferred to the computer. Four-Color image images in RGB or TIFF format. The TIFF file can be compressed or uncompressed. Fotomath uses a standard compression rate.

Some examples of Fotomath's use are real estate agents capturing the image of properties for sale, law enforcement investigators photos, pictures of medical tests, which could then be included in a desktop publishing-produced catalog and photos for personal notes.

Logitech says that Fotomath will be available in late October or early November of this year, and will carry a suggested list price of \$148 including the four-Color image editing software. The user must purchase a copy of Windows 3.0.

The Fotomath software is an improved version of a program originally called Asset, which is included with Logitech's Fotomath 386 handheld gray scale camera. For use with Fotomath, an additional module has been added to support the specific features of the camera.

Fotomath comes standard with a camera docking unit, built-in flash, two sets with power supply, a stand or stand to hold the Fotomath (up to a computer, a PC card battery and a manual/automatic flash and camera for use outdoors).

When the user needs to be independent and Logitech will send a working unit for the camera. Optical accessories such as additional lenses are available through local camera stores.

Contact: Serge Tachetoff, Logitech, 415-755-5558.

## NEW BOOKS: TAB Announces Four New Windows Titles

ELITE BLOOD SUMMIT, FRODOLOTH, and THE NEW—TAB Books has just announced several new books available in PC users during the month.

Although *Wind for Windows* (Barnes, \$14.95), by Herbert L. Tyson, covers the Windows menu language and other features.

*Wind 3.0* (Barnes, \$14.95), by James E. Brown, explores the window, window, and other of the new version of the world's most popular operating system.

*Quattro Pro 4.0* (Barnes, \$14.95), by Gary Carroll, PC is a Windows manual for the new version of Microsoft's BASIC.

*From FORTRAN to C* (Barnes, \$14.95), by James E. Brown, shows how to use Fortran Compiler in the C language and how to use the special features found only in C.

Contact: Dorothy Martin, TAB Books, (202) 241-2100.

## New QEMM-386 6.0, QRAM 3.0, DesignView Boosts Memory

DAVEY DESIGN, CALIFORNIA, AND 18 (SRI)—Quantec's has announced that the new version of QEMM-386 (Quantec's Expanded Memory Manager, 386) could give users as much as 60 kilobytes of extra RAM above what was previously possible.

QEMM-386 (also with QEMM-386) is a program to automatically configure memory for the user, so users could find out how the user, access and other peripheral user memory above the 640 KB of RAM the BIOS can use for running applications software. QEMM-386 has ordered Optimizer by adding new randomly access (RAM) detection and

utilization previously unavailable to users, which could add as much as 128 KB to the user's available RAM. Quantec's said.

"Banks" (a Quantec's name for the technology that allows users to utilize RAM memory in high RAM. The banks technology takes the BIOS code, but makes it available when needed, then allows the BIOS memory address to be mapped to high RAM or RAM above the 640 KB used traditionally by BIOS, the company said.

The BIOS, up to an even 128 KB, is now available in the user's RAM for what purposes, Quantec's said. The design of the BIOS could produce more or all of its use, but Quantec's said QEMM-386 is

programmed to look at the BIOS and programmed to the user which banks methods will work, and only attempt to use banks if it cannot find all the (random-access-only) or (RAM) (low high memory).

Only Page, Quantec's co-founder and executive vice-president of development, said about banks: "This important new Windows logic, unique to QEMM-386 version 3.0, is compatible with Microsoft's Windows version 3.0."

Other new features include support for the "Independent" facility found on many desktop-oriented computers, that allows users to power up a system to an

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## ATM Bundled With Ventura Publisher 4.0 For Windows

REDWOOD CITY, CALIF. (ENR)—Adobe Systems has announced the new software is bundling the Adobe Type Manager (ATM) with the newly announced 4.0 version release of Ventura Publisher for Windows.

This marks the second major software company that has bundled ATM with its application. Lotus announced with Adobe in May it is offering Ventura 4.0 and bundled ATM with all its Microsoft Windows products.

Adobe's computer is attempting to give users "What You See Is What You Get" (WYSIWYG). Adobe says ATM delivers WYSIWYG to users, consequently in Windows applications ATM displays on screens are

smooth approximations of what printers can

actually approximate. Adobe claims.

Adobe says that despite the fact ATM utilizes Postscript fonts (Postscript is a printer control language), the fonts will print in a Postscript or non-Postscript printer.

Ventura Publisher, Windows Edition 4.0 is listed for shipment in the fourth quarter of 1990. Ventura said, "Based on the price of \$795, but previous prices under \$100 per person computer (PC). DOS can upgrade for \$125, and the upgrade is \$100 to users of the Macintosh or OS/2 Ventura Publisher editions.

Contact: Jerry's Press, Mountain View, Tel. 415/963-0500, Fax 415/963-1361

## NEWSBYTES

## Intel Jumps Into LAN With Both Feet

SANTA CLARA, CALIFORNIA, SEP. 16 (ENR)—Intel has jumped into the LAN personal computer (PC) networking market via its introduction of the introduction of 15 new products in three months for the purpose of setting up local area networks (LANs).

Intel was the leading force of PCs with its 486 chip. Intel's success in the network market is due to the success of its network products. Intel's success in the network market is due to the success of its network products.

Frank Kirk, senior vice president and general manager of the Intel Products Group, said, "We are in the forefront of the use of Intel's 'bus' network" where getting information quickly to where it's needed is a major advantage for a company."

Intel says it hopes to release more in three months by its own research or by

interconnection and joining in traditional networking products using its own. Other more reliable networking products. The company here, Intel built the "bus" of the PC, so it made it enough that it must know more about how to make PCs connect than anyone else.

Intel said network has been difficult to build, build or maintain. Intel says a network has been "easy and then later, it's not."

However, Intel says its new products will make setting up a network easy. Intel said, "We believe in Intel's network. Intel said, "We believe in Intel's network. Intel said, "We believe in Intel's network."

The new network products fall into three families, local area LAN, printing and the network, interface, and network.

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#### WINDOWS MODELS

opportunities to test Windows 3.1, most of the registered users believe there is to be shared in making the developer's task easier.

Some of the new features include: a personalized installation system, to help eliminate Uninstallable Applications Errors (UAE) is system that will detect any IBM application which are running in the background on and off the hard drive in four kilobyte pages, allowing background applications to execute and while part of the application is moved on disk, the ability for developers to write programs which are greater savings with installation, developer programs, and Dynamic Link Libraries (DLL) that support version 1.0 of the Object Linking and Embedding (OLE) protocol, allowing developers to write macros.

Color user interfaces include a GUI that will provide code that supports common user dialogs such as EIA lists and lists, windows. Also supported in 3.1 is the implementation of a new version of the Windows help system, and source code for a graphical installation which developers can include with the applications they develop, making user installation easier.

The next version, however, has not yet been reported to be available in two weeks in early September, with the final version ready by the end of 1991. However, a Microsoft spokesperson said the product will not be released until it's ready.

Microsoft claims to have shipped more than four million copies of Windows 3.1, along with more than 75,000 developer kits. The company has a plan further upgrades in the future, including Windows NT (new technology) which is reportedly a Windows version for high-powered personal computers and computer workstations. Microsoft was expected to release Windows NT early in 1992.

#### Microsoft Windows Home Products Due

SEATTLE, WASHINGTON (SEP 4) —Microsoft has announced that it will soon introduce a low-cost product for home and small office computing, using the Windows graphical interface.

Microsoft spokesperson Mary Bradley declined to elaborate on a release date in any specific information about the product. However, Bradley did say that "Microsoft's entry into the home and small office market is imminent." She added that Microsoft can be expected to offer a series of products aimed at the small business and home markets.

One leading source said to expect the company to introduce the products early next week, and says it will consist of a low-cost desktop publishing product, a Windows version of Microsoft Works, and a home-based spreadsheet.

Other personal computer makers have been slow to penetrate these two of potential competitors, which they consider a huge potential market, with relatively little success.

If industry sources are correct, the new Microsoft products is being tailored and tailored that, improved, and could begin shipping as soon as October of this year.

Contact: Mary Teacher, Microsoft, 360-485-2000

#### NEW FOR PC: Accelerator Kits For Windows, LaserJets

RENEGADE MICROSYSTEMS, AUG 31 (APR) —The RENEGADE "zap" Accelerator kit will speed up Microsoft's Windows, according to manufacturer's Eugene Ipatov.

When combined with the company's primer software it will boost the speed of Windows/FastView/LaserJet and compatible laser printers, the company claims.

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which fits in a 3.5-in. ATX-size slot in an IBM or compatible personal computer. The dual in-line package (DIP) Programmable Universal Micro Architecture (PUMA) chip set in speed up the loading of some Microsoft Windows by offloading much of the work from the PC's central processor.

An additional circuit card, which fits an adapter slot in the HP LaserJet and many compatible laser printers, replaces the printer's own electronics and provides faster processing of Windows documents, the company said.

Barco Multiscribe, vice president of marketing at Ergon, said Windows that the printer manufacturer will work with the printer to get the most Gates print engine in the HP LaserJet line and has a printer adapter due.

The X2040 Windows accelerator card costs US\$499. The printer adapter is an additional US\$129. Both are available now. The company is also planning special accelerator software for Autodesk's AutoCAD computer-aided design software, to be released early in 1995.

Contact: Barco Multiscribe, Ergon Technologies, 10010-0068, Tel. 901/924-2691



With a customizable set of "shortcuts," the program is able to access both built and advanced spreadsheet functions, and 3.2 Cursor commands, which take the Windows look and action enough to take on Excel 3.0 and other challenges. See the last file folder.

## NEW FOR PCs: Lotus 1-2-3 For Windows

CAMBRIDGE, MASSACHUSETTS, SEP 18 (CN)—Lotus has released a Windows version of its venerable 1-2-3 spreadsheet.

Lotus 1-2-3 for Windows includes SmartDraw, a visualizer that let users provide single-click access to built and advanced spreadsheet functions, and 1-2-3 Classic commands, which give users the option of accessing the familiar 1-2-3 menu by pressing the "F" key. It also features prompt-and-click file linking, a reference-point graph editor, and a data type Manager module that is new.

Lotus 1.2.3 for Windows will be priced at \$492. Microsoft Series and Note Editors will be \$492 and \$149, respectively. All customers who purchased a version of 1-2-3 since January 8 of this year are eligible to upgrade to 1.2.3 for Windows for \$40. Early order bonus of a version of 1-2-3 one upgrade for \$69.

To order or make other spreadsheet users and watch the competition's play for releases from 1-2-3, Lotus is offering the \$150 upgrade to users of Microsoft Excel and Quattro Pro.

Lotus 1.2.3 for Windows requires an IBM PC AT or compatible (586 and higher), including most IBM PS/2 and Compaq models. Windows-compatible display, a second processor-based VHS system, 640K, 3.5-in. disk drive, space between Windows 3.0 or higher installed, and DOS 3.0 or higher.

Contact: Lotus Canada, 637491-1292

## Lotus Ships Ami Pro 2.0

CAMBRIDGE, MASSACHUSETTS, SEP 5 (CN)—Lotus Development Corp. has announced that it has begun shipping Ami Pro Release 2.0, its word processing program for the IBM-compatible Windows 3.0 environment. Lotus also announced a number of installing and upgrading plans.

Ami Pro has a suggested retail price of \$99 with upgrade pricing of \$49 to purchasers of Ami Pro since March 1, 1991 and \$99 to all other registered users. Additionally, Lotus is offering an upgrade price of \$10 to all users of its non-Windows

word processors, Lotus Manuscript and Screen Writer IV, as well as a \$49 upgrade price to users of other non-Lotus word processors such as Word Perfect, WordStar, Microsoft Word, and StarWriter.

Purchasers of Ami Pro 2.0 will receive, under a limited-time promotional program, upon registration of the software, a special edition of Reference Software International's Comprehensive Windows 3.0 grammar and spell checking software. Anticipating the arrangements,



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**Abstract:** The purpose of this study was to determine the effect of a 12-week training program on the physical fitness of 10-year-old children. The study was conducted in a primary school in the city of Ankara, Turkey. The study group consisted of 20 children (10 boys and 10 girls) who were randomly selected from the school. The children were divided into two groups: a control group and an experimental group. The control group did not participate in any physical education program, while the experimental group participated in a 12-week training program. The physical fitness of the children was measured at the beginning and at the end of the 12-week period. The measurements included heart rate, blood pressure, and body mass index. The results of the study showed that the experimental group had significantly higher heart rates and blood pressures than the control group at the end of the 12-week period. The body mass index of the children in the experimental group also increased significantly. These findings suggest that a 12-week training program can improve the physical fitness of 10-year-old children.

**Figure 1.**

**Figure 1**

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## MS-DOS HARDWARE

**TABLE 1**

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

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had \$5 million in sales and was purchased by another American. It then was absorbed in General Electric and it became primarily a mail order company. Over time, the company began publishing some of its own software and in 1989 changed its name back to Darius.

This year the company, which now has over 100 employees, reports over \$35 million in sales. Although the company ships over six million of its Power Up software annually, most of its products are sold exclusively by other mail order companies and its computer stores.

Contact: Andy Merrill, Corporate Communications, Power Up Software, 475075-1304.

## NEW FOR PCs: Aristosoft Adds Sound to Windows

**PLEASANTON, CALIFORNIA, AUG. 27 (ENR)**—Aristosoft, Inc., has announced Wind the Sound, a Windows-only data access capability to Windows software using the internal PC speaker. No add-on cards are required.

Wind the Sound lets the user preview the Windows desktop with more than 10 sound effects, avoid lost data and voices, including a locking ring, a cursor beep, a save success, a download and a dialog box. These can be assigned to dialog boxes, various types of alert boxes, application managers, options menus and exit. A talking clock lets users set alarms from their desktop, display a date in user's appointments, messages, or weekly reports after using a log file record, for example. It can also speak the time in 12-hour or 24-hour intervals, or several times.

All sounds will work while the user is in another application, when the user message is heard, or in DOS. A Wind the Sound System Task, always in background for use with, inserts in each program in Wind, Excel and Lotus 1-2-3 the Windows.

Customized sounds are available from the company. Aristosoft plans to add the capability to automated sounds in the future.

Contact: Aristosoft, 575040-8330 in Pacific Calif. 800233-1229.

## Software Handles Windows 3.0 Printer Bug

**VICTORIA, B.C., SEP. 3 (ENR)**—Aristosoft Technologies and its August version 3.1 software correct a problem that crops up when PCs running Microsoft Windows start word printers.

Reported last May Windows 3.0 or DOS 6 printers print directly to any printer sharing option, this company said.

According to Aristosoft, Windows has for years failed to recognize "true" digital data from centralized printer sharing systems. That means the application can't data the printer and, knowing the printer is busy, fail the data to it. The problem can even arise with buffered printer sharing systems where large amounts of data are sent for printing by the company user.

Aristosoft, which also makes printer sharing systems, came up with Report to solve the problem. The software acts as a buffer controlling the flow of data to the printer sharing device, Aristosoft said.

Report 3.1 is available directly from Aristosoft, Morgan and its task it costs \$49.95 in Canadian or U.S. currency depending on where it is sold. Report is also available bundled with Aristosoft's 3.000 P-Link data sharing system, which is available from Systems House printer distributors in the United States and through direct lower printer dealers, listed under Name Darius Printer Sharing System, in Canada.

Contact: Aristosoft, Australia 043434-5000 or 0454-943450.

## Video LSI for Windows Released

**TOKYO, JAPAN, SEP. 15 (ENR)**—AGC Microsystems Inc. has released a new version of AGC and Micro Windows. The new version of AGC and Micro Windows has added a video graphics LSI (large scale integrated) chip for Microsoft Windows.

The LSI chip, called the F11300LPC Video, works with the VISA (Video Graphics Array) standard. With this chip, personal access of information and other images can be improved into a PC. The screen image can be copied, improved or used data is fast.

This chip was developed by Agc and Technology in the U.S. AGC Microsystems Inc. announced a new version of the LSI to make computer board makers and personal computer makers. It is expected that the application software to improve using this LSI chip will be developed as early as this December.

Contact: 045-0335-7024.

## Alacrit's Windows Doc FileFastCopy Beams

**CHICAGO, ILL., SEP. 23 (ENR)**—An attempt to further automate the sending and receiving of paper documents, the sending and receiving of paper documents, and the copying of paper documents within Microsoft Windows, Alacrit Systems has introduced a single PC program called the Alacrit Systems Document Manager.

The board, which costs for under \$1,000, works with a number of Windows applications and works with a laser printer and scanner.

Continued on page 29

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OCTOBER 1991

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### Hot News

## ANOVation Goes Direct

October 1991 marks the end to a very successful marriage between The Computer Paper and AND Office Automation's ANOVation Newsletter. Effectively, the ANOVation Newsletter will be distributed on a direct basis only via the mail.

"When we first began distributing the newsletter (ANOVation) back in April of 1990 we had no idea of how widely accepted it would be," exclaims Salma Jannoff of AND Office Automation. "Our database alone has grown from a few hundred to a few thousand in just over a year."

ANOVation is a streamlined source for end-user information. By providing data on new and

innovative products, as well as helpful hints, readers find it a quick and easy way to keep up to date

without waiting through larger publications.

Those of you who are not receiving ANOVation on a monthly basis can do so by simply filling in the Reader Response Card below and mailing it to the AND Office Automation location nearest you (see side bar). Don't worry about missing the October issue as we have purposely moved production to later in the month.

NOTE: If you are already receiving ANOVation but will be moving please drop us a line so that we can change your address in our database. Thank you.

AND

## Reader Response Card

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City: \_\_\_\_\_  
Prov: \_\_\_\_\_ Postal Code: \_\_\_\_\_  
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## NEWSBYTES

### First Mac Notebook Software Ships This Month

PHOENIX, ARIZONA, 1800 SEP 19 (NS) — Although Apple isn't talking about its notebook computer to the public yet, Phoenix-based First Wave is making an effort to get its revised Thinklighter general information manager (GIM), which was the first to be completed, the new Macintosh notebook computers due to be unveiled in October.

First Wave says it will begin shipping Thinklighter 1.0 this month. John O'Brien, president of First Wave, says nearly 30% of the people requesting product information from First Wave during August specifically requested the new notebook-compatible features.

First Wave says Thinklighter 1.0 will be able to look up phone numbers when it sees the key word "call" in an address form. The phone number is separated in the address form and can be consulted through the Mac symbol in a window.

Other notebook-compatible features include the ability to print any report, including letters, resumes, addresses, or daily schedule in a list or in a table screen for later viewing on hard-copy printing. The company also says the software will

also store data from its previous software, as well as its new software. Thinklighter is based on HyperCard 1.0 and Reports 1.1 from Macintosh software. First Wave President John O'Brien says the software has the most built-in features in other Macintosh applications with graphics, animation, command keys, and the ability to run under System 7.

Thinklighter 1.0 is unchanged in price, at \$149 for the software, or \$179 with a supported monitor, which includes a mouse, and a mouse mouse to improve the management of data. A booklet for the software is also available for \$199 and costs in two days and colors. Registered users will receive a free upgrade this month.

Apple has had little to say about its new notebook computers but notes that the new software is being tested by users, and will be available in October in San Diego only. The unit is expected to weigh between 4 and 5 pounds, have a resolution of 640x480 and a 20 megabyte hard drive. It is believed that the new unit will be a 64000 chip and will be priced around \$1000.

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# Monitors and Display Adapters

By Rudy Chen

## Overview

Since I last wrote about monitors and display adapters in the March 1989 issue of *The Computer Paper*, prices have plummeted, making equipment only the Panasonic could afford now available to everyone.

I will tell you about these new high-end video components and about the more modest VGA and Super VGA systems, as well as give you tips on how to buy equipment.

If you are not satisfied with an upgrade, you will find them explained in the glossy two-colors.

## The Basics

Computers display pictures and text on TV-like boxes called monitors. The electronics to control the monitors or to alter display adapter cards fit into the computer.

The key specification for monitors is "resolution." If you look closely at the image on the screen, you will see it is formed of horizontal lines. Each line is made up of minuscule dots called pixels. Other monitors use a resolution of 640x480, a means there are 640 pixels in each line and 480 lines. The most dots per line and the more lines per screen, the finer and clearer the image will be. High resolution just means more, better dots.

High resolution is more expensive, but it is not always a good thing. As I will explain in detail later, higher resolution can mean smaller, lower-costed types and slower pointing.



smaller, lower-costed types and slower pointing.

If you get out a magnifying glass and look at the surface of a color monitor, you will see the pixels are formed of even smaller phosphor dots, arranged in groups of blue, green and red. When an electron beam hits them, these dots do a glow with varying brightness to create the myriad colors you see on the screen.

If you consider a monochrome monitor with a magnifying glass, you won't see any phosphor dots at all, just a smooth, uniform sheet of amber or white phosphor. That is the main reason most cheap monochrome monitors display sharper images than the more expensive color monitors.



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- **BANDWIDTH** 45MHz



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- **SCREEN SIZE** 14 inch
- **CRT** Dark-tinted, Non-glare
- **DOT PITCH** 0.28mm
- **RESOLUTION** 1024 x 768
- **SCANNING FREQUENCIES** 31.5/35.2/36.5 SKHz hor. 50-100Hz ver.
- **BANDWIDTH** 45MHz
- **X-RAY RADIATION** 0.0 Complies with IEC Specifications



## TVM 4A+

- **SCREEN SIZE** 14 inch
- **CRT** Dark-tinted, Non-glare
- **DOT PITCH** 0.28mm
- **RESOLUTION** 1024 x 768 Interlaced and Non-interlaced
- **SCANNING FREQUENCIES** 30 - 48KHz hor. 40-100Hz ver.
- **BANDWIDTH** 65MHz
- Supports VESA 72Hz Standard



## TVM 5A

- **SCREEN SIZE** 15 inch
- **CRT** Dark-tinted, Non-glare, Plus-square
- **DOT PITCH** 0.28mm
- **RESOLUTION** 1024 x 768 Interlaced and Non-interlaced
- **SCANNING FREQUENCIES** 31.5/35.2/36.5/48KHz hor. 40-100Hz ver.
- **BANDWIDTH** 65MHz
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### Feeling the Revolution

The left brain that brought these new lower prices has not a new list of standard or off-the-shelf silicon chips to offer a large, inventory-heavy computer purveyor. Microsoft's Windows 3.0, alone, averages, at least a dozen times the computer hardware that could equally drive standard, full-price prices. Up to this point, people were satisfied with plain iron (hardware and software).

Microsoft's Windows makes 386-486 computers behave something like the Macintosh. This means with a mouse and click, an idle processor called, time to get work done.

Windows created a mass market for the video hardware. Hardware quality that up and price plummeted.

### The Catch

Not everyone is enjoying these price drops, however. Why?

Though it may be pleasing to look at and hear the, the Windows graphics method is much slower than the old text method. Some people, such as accountants, would like to have a text computer that is nearly cost.

What is the problem? When displaying graphics, an unit is slower than displaying text. If you don't care just display screen. Time is going away to a mouse pen.

When Windows paints text, it considers it as just another type of picture. A "picture" the size of a letter "B" might contain 128 dots. Unformatted programs leave the letters on the screen a character at a time. Windows paints them a dot at a time. Finding by dots is about sixteen times slower than painting by characters.

A few more. One odd color in the Windows is a large palette of colors. We used to be content with eight colors, now we might want 256 or 32,768 colors. But do they have to carry with loads (burgeon) of more color coding. In theory, more colors would slow down about sixteen times.

Word. There is more. More and more. Let us try to deal to be content with 640x480 dots (pixels). There are most 1,024x768. In the first case there are 128,000 dots. In the second there are 784,400. We have no time to money data to paint. In theory we would need a computer six times faster.

Right? Perhaps you can see why Windows has a reputation for the slowness. This need requires are computers get to get the same speed as the "old fashioned" text mode applications.

### Technology To The Rescue

Clearly a working theory had to be done to speed things up. If Windows was ever going to fly.

Engineers set to work to increase the speed of the brain of the video system—the display card.

The computer company the custom design is manufactured from RAM. A matrix of cores and a stream of numbers inside the video of each pixel in each (dot) location on the screen.

An engineer started up the RAM on the adapter card. Then improved the RAM so the computer could be changing the picture while the adapter was sending the picture to the electron gun to display. In other design the computer and the display logic took turns looking at the picture record electronically. This new kind of RAM is called dual-ported VRAM.

Three methods took of changing several dots at a time.

They created bits and later and more expensive computers—the 586 than the 486 bit, Windows created doing.

### The Video Coprocessor

Finally engineers invented a truly powerful solution—the video co-processor. It is an auxiliary computer that does 40-60 Mhz specialized just for the business of drawing dots.

Now a computer the video coprocessor with the main co-processor. A numeric coprocessor is also an auxiliary computer but it specializes in arithmetic and other math-related calculations.

Windows can ask the video coprocessor to "paint" the picture. There have been and other businesses such as Windows 3.0 "painter" and the video coprocessor will go out and laboriously paint the individual dots

leaving the brain. On Windows can say "here a picture make the letters 'word'" and the coprocessor will calculate the mathematical mathematics of the circumference of the circle and find the center while the, do by dot.

The 386 or 486 CPU specializes in arithmetic and text processing. It is slower at handling dots (an binary "two" is a computer programmer's friend of theory). In contrast, the video coprocessor's whole purpose for existence is to draw dots, to it handles them slowly.

While the co-processor is changing over, the 486 CPU can go off to do things not involving more interesting than just

millions of individual dots. With the two computers working in tandem, fully simultaneously, screen painting can really speed along.

Under the hood, the video coprocessor just does Windows. If there are no dots to paint, it cannot help out with other tasks. This means when Windows is drawing away at the dots, the coprocessor can be thinking to help speed things up.

Further if you are running ordinary text applications, the video coprocessor just sits idle in Windows and waits for nothing to help. The time with a program which is either in processing dots or keep are Windows and Windows.

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Continued from page 24

### Here Options 7300488

The low-cost option is the Hercules driver card with a monochrome TTL monitor. You can choose a graphics card built on an either-on-board 14" monitor. The latter will be considerably cheaper, just as clear as the requirements of the monitor. It can also show 720x480 graphics. It cannot do color or shades of gray. A good quality Hercules driver adapter built into the Diamond Power will cost about \$44. You can get a decent monitor with the Diamond or Hercules for about \$130. The way to saving big money is a 14" monitor, but the saving is not worth the reduced legibility.

### VGA Gray-Scale Option 8400488

The next-best option is to get a plain VGA display adapter card, not necessarily emulating the IBM VGA card. A few Vids cards work on the old basic card, about \$130. This will give you 640x480 graphics in various shades of gray.

You can pair this card with either a graphics monitor—or that shows images in shades of gray or a color monitor. You can get a Hercules or Hercules 720x480 monitor for about \$100—also some is a plain TTL monitor. Hercules' graphics emulates color in gray-scale monitors in some of its more expensive models. A 14" monitor is

TTL monitor does not work with VGA, only with a Hercules adapter.

The disadvantage of gray-scale is that most software produces color. Authors may choose a color scheme such as dark yellow on pale gray—completely unacceptable. You have to create the various programs in a color scheme that display properly on gray. There is no general mechanism in the data encoding. Every program has its own unique way of handling the information and most programs unfortunately provide no method for changing the color scheme.

Other people who cannot afford a fancy color monitor buy a high-resolution color

card and pair it with an inexpensive gray-scale monitor, and upgrade later to color.

### VGA Color Option 8400488

You can pair this same IBM 8400 basic VGA video card with a color monitor. You may also pair this with a graphics 14" monitor like the \$105 Hercules 8400VGA. The advantage here is cheap, but produces an image in the same large as monitors costing hundreds more.

If you have a monitor and plan to let your computer primarily to give presentation to customers, you might want to look at the 8400 basic (the color monitor). This monitor has a perfectly fine, especially on graphics. It has the flicker of color on many monitors. I have even seen it in the working + mid-range area. However, unfortunately, it is a VGA only. It cannot do any of the high-resolution super VGA modes.

### GUI options

If you have decided you need graphics there are three main computer:

1. Desktop publishing (for Windows).
2. Desktop Publishing and related applications.
3. AutoCAD and other high-end graphics applications.

Each has its own needs:

• Desktop publishing needs speed and color.

• Desktop Publishing needs a lot of screen. There is no need for color, unless, of course, you plan on publishing to color. There are special screens and adapters for desktop publishing. If you can do desktop publishing, publishing, it is important that you use your screen system in such a way that the screen is not used to store the working image to bring only one of it at a time to the screen.

• AutoCAD needs a big screen, speed and color. AutoCAD also needs plenty of computer power—a 486 with a built-in floating point co-processor.

The options are IBM, Super VGA, Hercules, or Graphics Adapter. Each has its own interface. If you buy any of these high-end graphics style video systems, they can still handle the desktop video card as well.

### The Stereo Analog

If you want to do a stereo stereo and brought a 8000 amplifier and a \$50 pair of speakers, the sound might be a little disappointing. Just as in stereo, you have to balance your purchase so that you do not overinvest in any one component. You must balance it equally in your computer. Audio, video card and monitor. Overinvesting in one area will not, but the overall quality. But you will not see any value for your money until you have a decent monitor, a video card, and a decent sound.

Let us look at what happens when you overinvest in your video card in proportion to the monitor. Let us say you buy a Super VGA video card that can handle 1024x768 resolution. You decide to use a new 1024x768 monitor. You have a bigger playing field to view, but how are the most number of dots all as before with more dots required smaller and closer together. The mixing is a small you have to see in real life.

If you didn't buy your expensive video card to look at and visualize a cheaper 800x600 card, so you can see a Windows game in 1024 Windows like using a bigger, more available font.

When you increase the resolution, most you have very good eyes, you also have to increase the size of the monitor screen, up to 14, 17 or even 20 inches. When you increase the resolution and keep the screen size the same, you are cramming more detail into the same area.

What happens when we overinvest on the video card and monitor in relation to the CPU? To control your purchase monitor,

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on an average you save one and a half times the cost of the same system for a big 17" monitor. Now you do have to pay for it and what happens? When we went from \$1000 to \$1000/16 we increased the number of dots 1.4 times. Our price this \$3 is saving a little time keeping up painting all those more dots, but we still up again taking our expensive video cards back to \$1000/16 you to get more screen space. If you don't upgrade your CPU, you might as well have used a cheap video card and small monitor all along.

So when you increase resolution, you may need to increase the size of your monitor, and you may need to increase the speed of your displaying engine (CPU or video coprocessor), and then you will need to upgrade your computer. This has to happen everything in concert.

## The Super VGA Option \$800x600

The very same VGA graphics card and video system I discussed under 25 MHz made this much if you plan to use an 800x600 17" monitor. However, you can easily get a 14" monitor or beyond VGA, to 1024x768 resolution and will cost the same.

If you do this you need a Super VGA card such as the 3DFX VESA. This card can go all the way to 1024x768, but this resolution needs a 17" or 17" monitor to be legible. With a 14" monitor, it is hard to 1024x768.

Lower cost monitors usually cannot handle the 1024x768 or 1024x768 and so when you start using these resolutions you need more expensive Super VGA monitors.

If you want Super VGA you might go for a higher quality monitor such as the 3DFX VESA or 1024x768 or the 3DFX VESA or 1024x768. The advantage is a more expensive monitor is a smaller image in the resolution.

## Super VGA 16 1024x768

Let us say you want this very fine resolution—1024x768. This gives you the Super possible playing field for Windows, a few you are more of a jump. In 400x600 publishing, it is less you show monitor detail in AutoCAD. If you have the dollars, you can go more higher than the 1024x768 (800x600).

Now there have to make a choice—between a monitor or monitor. Some people might find a 14" monitor monitor such as

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# Glossary

**EGA—**1988 engineers decided that the VGA design would never give sufficient speed for true applications like Windows. So they mutually recognized the need for a design between them. They built a video co-processor in this case, the need of sharing data. EGA is a serious one and successful because it was only to increase speed and the co-processor was the one. Since then, other companies have made their chips that work both as accelerators and feature monitors.

**Adaptation—**A card of electronics that fits inside your computer. The image data is a picture made of bytes and cards in RAM on the adapter card. The card uses the main RAM image about 50 times a second, continuously sending a 700k signal to the monitor to define the electron beam to create the picture. There are many kinds: VGA, Hercules, Hercules Plus, VGA, VGA, VGA, VGA graphics co-processor.

**Adaptation—**Monitors that can display any possible shade of gray or any possible color. The images that would come from many monitors.

**CGA—**Color Graphics Adapter (1987) original video card with a maximum resolution of 400 x 300. A 300 x 200 CGA screen size data 4 colors on the screen as seen from a picture of 16. It has been studied for its parts, but you will not draw from data to use in low-level games. These cards have cheap, high-speed bus, strong graphics, and all accepting data where the screen scrolls.

**EGA—**1988 color video adapter (400 x 300 x 30) colors from a picture of the screen. A special 800k image adapter card. It has a VGA adapter card. This co-processor called monitor monitor.

**Graphics—**Monitors using memory data can display shades of gray with a VGA or Super VGA adapter card. This co-processor called monitor monitor.

**EGA—**1988 Color Graphics Adapter. This gives excellent monitor screen, and some primitive graphics. Works with a VGA adapter. Particularly cheap will be found. EGA has direct speed up to about 100. Cannot do color or shades of gray directly. The Hercules company built an image monitor with cards.

**EGA Plus—**1988 Color Graphics Adapter Plus. This card is a great idea that some companies. Only a few projects such as Windows 3.0 graphics features. It combined the speed of VGA with the VGA/EGA of graphics mode.

**EGA—**A small picture, or large. By printing the screen at the front and adding a feature on the screen you will the computer to perform the screen represented by one line. For example that up the board speed.

**EGA—**1988 Color Graphics Adapter. This is a original video card with only one. It could be the same project as the. The Hercules monitor VGA for use.

**Monitor—**The TV-like screen that can see your data. It might be full color, paper-white. Continued on page 42

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on black, under on black, green on black, or various shades of gray—grayish. There are digital TTL monitors whose control signals are either on or off, and there are analog monitors whose signal voltages may continuously fluctuate to represent the shades of color or gray.

**Monochrome**—Literally one color. This is shorthand name for an amber or phosphor-coated TTL monitor. Sometimes monochrome used to refer to VLSI graphics monitors.

**Palette**—The set of possible colors a computer can display. Usually it can only display a limited number (e.g., 64) of the possibilities at any one time.

**NTSC**—stands for National Television Standards Committee but is more commonly known as *Steve The Boss Cat*. These various monitors had low-quality TV-like images suitable only for games.

**Refresh Rate**—The number of times per second the picture is refreshed on the screen. 60Hz is average. For some people, implying low causes an annoying flicker. To see the effect, look at a screen that is nearly white background.

**RGB**—Red, Green, Blue monitors can display only 16 different colors and again are used mainly for games. They work with the old VGA cards.

**Super VGA**—IBM licensed VGA, there is widespread confusion, reduced to terms is a more improved high resolution version of it that everyone could copy as a standard. In each manufacturer was off on his own designing his own enhanced system, then when two manufacturers both showed in the IBM/AT, they each did it a slightly different way. None of these enhancements are compatible with each other. This hodgepodge of various higher resolution is known collectively as Super VGA.

**TVI** (Translator-Translator-Ingle)—This is a type of monitor that has only two colors—white on black, under on black, or more rarely green on black. It works with a three-card, but not with VGA cards.

**VGA**—Video Graphics Array. Standards Association. Having all the super VGA cards incompatible with each other made it impossible for computer programmers. They had to write special versions of their programs for every different brand. A group of manufacturers (known as VESA) got together to hammer out a common standard. The problem and producing the position meant the only thing that VGA is even able to standardize are already out of date.

**VGA**—Video Graphics Array. This standard card can do three things: display text, allow various screen sizes, and display pictures at 640 x 480 with 16 colors (this is a pixel of 256,000, or 256 x 1000 in 10 colors). Nearly all software written today on this type of card. Nearly all the newer types of card can also present to be a plain VGA card, designate a graphics or video mode (this can also be used with the more expensive video technology board sets, including monitors).

**About the Author**

Andy Grant, president of Cambridge Micro Products in Vancouver (604) 434-1239, built his own computer. He also writes custom computer software, primarily for non-profit organizations and churches, and other training and consulting.

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## More About Monitors

As you'll discover when shopping for monitors and video cards, there are several display standards (for a discussion of the most popular of these, see *Monitors & Display Adapters in this issue*). Even video cards offer more colors at higher resolutions, which you must match to the monitor's capabilities.

Many of today's video cards and associated monitors (multisyncing monitors can adapt to a variety of display standards—used by those when you want to run software for which no driver exists for a particular mode). However, considerations in color use, especially, of the two dominant standards rule up the display. The so-called dot pitch is a major factor in how sharp the display appears. A good monitor can have a dot pitch as low as

0.25mm. The lower the number, the sharper. Generally, you should seek nothing higher than a 30 dot pitch.

Of course, to take full advantage of higher resolutions, you'll need a graphics-plotted video card. It's also always smart to buy many people prefer from 15,000 to 16 in this a horizontal computer, and then saving on the display by buying a cheap monitor and buying an off-the-shelf video card.

Consequently, I recommend that you get a high-resolution video card with some sort of on-board acceleration, especially if you plan on running graphics-intensive programs like Windows 3.0. The difference in performance over "basic models" is quite striking, as you must realize that Windows isn't as inherently slow as it

appears on most systems—the bottleneck is in the screen display.

There is a direct relationship between the number of colors displayed and the speed of screen redraws. Agree, in the Windows, for example you might have a video card and driver that supports 256 colors. You can use the Windows Setup option to oversample your system for less colors (i.e., 16) to approximately double your screen-redraw speed. This makes Windows a lot faster. When you need the extra colors, just choose the 256-color driver from Setup again. Your driver can probably help you set up this simple procedure.

Be sure that the video card and monitor combination you choose is supported by the software you want to run. High-end brands like ATI, Parallels and Cirrus are compatible with nearly all PC applications, while some obscure ones may not be. Generally, any video card with a chipset from Cirrus, Creative Systems, Hercules

Technology, Oak, Trident Microsystems, Tsing Lian and Video Seven have good responses for compatibility.

For extra details, ask your dealer specifically if it has drivers for your system. Remember, too, that even if the choice proved a "compatible" with a big name, you will usually find on which more things is like that you probably pay for.

### Buyer Beware

On the edges of the market, I advise the to many computer stores, the alternative price for the "cheap" system" usually consists of really low-end video cards and graphics adapters (A discussion of monitors with a dot pitch of 41 (really bad) told me that the video is almost a miracle).

At one time I thought in reality, the alternative really did not get on the idea of a "only \$100 more" VGA color display instead of a VGA monochrome one. Unfortunately, the VGA color display featured a 30 dot

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**A Bumper Crop****1991 Harvest of Windows Word Processors**

by Catherine Lublin-Dick

**Rustic Beginnings**

The evolution of word-processing tools moved with great haste from the slow, handwritten transcription to the mechanical hand and finally manual operation. One to the next utilized classic operation. Finally, we see an electronic twist, the response, which is a great improvement over even such a primitive, character-oriented word processing. Character-oriented word processing started with the ubiquitous all-purpose, microchannel display of dedicated word processors. The Windows harvest was born in a great more popular Windows system. All major word processing programs will run complete for most users, and there began an evolution toward microchannel programs. Classic machines become available and more power (or personal) graphical user interfaces are displayed.

Microsoft's move to designed more and more from software. The harvest, before I wrote this essay, I constructed a "Windows Word Processor" in my head. A word processor that would include an only a style-friendly graphical interface, allowing an automatic on-screen, but also a complete checker and a two-checker. I would program on how many and elegant, designed word-processing tools. I started out just a color palette, I found a spreadsheet with all the colors of the spectrum including infrared and ultraviolet. I found a screen developed to be as large as my idea. I started on features. All clip in the modern harvest that would not only take my standards but would also outgrow them.

Well, instead of drawing word word processors I should be thinking more about how to get the most out of the world word processing in software and its development. Now, enjoy the harvest of 1991's first Crop of Windows word processors. (The programs that were not available for review have been included in the Windows Word Processor Harvest chart on page 52.)

**Word's Object-oriented Word Processing**

Microsoft Word for the Macintosh was a very successful product. It introduced users to a rich set of object images, labels and tables easily. Also there is enough to see in the word processing world, including. During hours, the ability to import graphics, and many other features. So it was natural that Microsoft ported Word onto the PC, where the Windows environment was present. Word for Windows immediately had a powerful help and word-making, become standard gear for all Windows word processor users.

Word for Windows also managed to transfer the power features of its character-based ancestor, MS Word, to its new environment, i.e., graphical editing, design, macros, record & feature that Word for Windows is still a powerful in its own language. Thus, the power users/programmers Word for Windows is still considered the best investment.

MS Word for Windows 2.0 is in beta, not new, and although the opportunity to see a demo of Microsoft's new line for the October deadline. The new version is expected to include object-oriented word processing. Its object-oriented word processing. I mean that words that would be in cut and pasted back, as again through the Clipboard will now be retained and, the source will then dropped into the desired position in the text.

**And Pro 2.0 Outstanding**

Later, And Pro 2.0 for Windows has a harvest on the PC. The release is now known as *Behind the Windows*. What was once a spare program to test others in its understanding, documents and powerful and Crystal features, plus the inclusion of the new Type Beautifier, which will format, make it great like your own Word. Some of the many highlights are:

**Smart Icons & Power Fields**

The icons palette can be placed on the top, bottom, or to the side of the screen, or can be placed above the screen in a floating window. The icons are tiny 32-bit icons that can interact directly with a click of the mouse button. Icons allow direct edit icons, pictures, and figures that they are used like pictures in the icons found in other Windows applications. If you can't find the problem from your macros, you can also create your own 32-bit icons and use them. You can also the icons above to use them automatically.

There is a subset of icons called icons. Icons that are ready to be assigned to macros, either from the collection of over 100 macros And Pro 2.0 provides or in one of your own. The icons that are the most powerful icons are also a source in the direction of object-oriented word processing.

Power Fields in And Pro are more powerful than the traditional, complex and an abundance of powerful Windows word processing, as they can be redefined with text they can perform editing, and keep track of automatic numbering. The power fields let you can merge the power fields in macros.

**Equation Tool**

The most exciting feature in And Pro was the equation editor included with this program. Based from the other challenging equation program, *TEX*, this equation editor solved the problem of entering the formulas, Greek letters, and symbols on microchannel that mathematicians, engineers and other sciences need to do without having to learn the word processor.

Each symbol has its corresponding photo, which is easily copied on and the symbols, including, integral, upper and lower Greek letters, etc. are located in the body of the text.

**Charts, Drawing Tools, Clip Art**

And Pro's chart feature is very impressive. The only other word processing package that includes drawing is MS Word for DOS that makes bar graphs, pie charts, bar charts. But MS Word is more an integrated office package than a word processor. And Pro's chart tool could use some professional results than And Pro's own one. Quality types of charts can be made from your data. Columns or stacked columns, bar or stacked bar, line or area, line and column, pie or exploded pie, and picture or stacked picture.

If you wanted to do a quick job in And Pro, then you could just open the drawing tools and go for it. And Pro has some preliminary lines and even a Ribbon menu to be useful.

And Pro also comes with 100+ Clipart pictures. I found a wonderful lot used for

Continued on page 50



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#### SHAREWARE

## Shareware: Word Processing and Windows

by Gordon Peary

In keeping with the month's theme of word processing and Windows, we present a selection of the best, most popular word processing and Windows software. This list is not exhaustive, but every product listed is of high quality. Furthermore, copies are available from shareware vendors and telephone area codes indicate local systems (800 is in Vancouver and throughout Western Canada).

### What is Shareware?

Shareware is software distributed on a "try before you buy" basis. Users get an evaluation copy from a vendor, install it on their machine, or download it. After a trial period they decide if they want to keep the software. If so, they should register it, a price would not apply for it.

Shareware is usually less expensive than commercial "shareware-trapped" software. Shareware offers independent users program comments on what they think work. Unfortunately the shareware market is cluttered with a lot of junk, plain and simple. During where from hell is no marketing does.

To make this problem The Computer Page presents this short and quick list of good, reasonably priced shareware. Prices are listed as of this writing but subject to change without notice.

### Word Processing Shareware

**PC-WRITE 3.0** by Quiksoft, Inc. Registration \$19.95 + \$2.00 postage and handling. Registration brings latest updates, technical support and a manual. Quiksoft offers you a \$25.00 rebate for new registrations spending you at their initial price.

A sharp, powerful, popular, full-featured word processor. Includes documents with a 128,000 word spell checker. Special features include mail merge, typewriter mode for editing many word processors. Compatible with MS-Word, WordPerfect, and other major word processors, but for much more less.

**PC-WRITE LITE 3.0** by Quiksoft, Inc. Registration \$19.95 + \$2.00 postage and handling. Registration brings latest updates, technical support and a manual.

Smaller version of PC-WRITE. Good for users with less computer and a portable who want a smaller version of their word processor on the portable, or for users who don't need all the features of a full package.

**PC-EXCELITE 3.04** by Simon Ray Software. Registration \$49.95. Registration brings a manual.

Excellent! This package enables users to convert any computer into a powerful businessword and graphics and develop their make business for writing, more lists or plan estimates. They require minimal hardware features, or run on lower quality hardware word processor. Can run shareware version.

**WORD ADVANCED** by JonWise. Registration \$49.95 + \$2.00 postage and handling. Registration brings technical support, low cost updates, and a manual.

Quick is a true editor for editing files. Features a full range of text editing functions including macros relating to spell checking, drawing, and more than one file in a doc. Full-featured word processor. Very popular.









**PC COMPUTERS LTD.**  
49-1018 RD. 3 ROAD, RICHMOND, B.C. (CANADA V6V 3C3)  
TEL: (604) 278-8808 FAX: (604) 273-0882  
1020 KING GEORGE HWY, SURREY TEL: 882-0388

## FALL SPECIALS

<b>System</b>	<b>286-12</b>	<b>\$1150</b>
Notes: All systems include:		
1MB RAM, I/O with S/PQ, 3.5",	<b>386SX-16</b>	<b>\$1300</b>
1.44MB 5.25 Floppy, 40MB	<b>386DX-20</b>	<b>\$1365</b>
Optional Hard Drive, Enhanced	<b>386DX-25</b>	<b>\$1485</b>
Tasteful Keyboard, VGA, 386K,	<b>386DX-33</b>	<b>\$1645</b>
Graphic Card, MS DOS 5.0 &	<b>386DX-40</b>	<b>\$1800</b>
256MB SVGA, Deluxe 14" Color	<b>486DX-25</b>	<b>\$2385</b>
Monitor.	<b>486DX-33</b>	<b>\$2550</b>

### Upgrades

Add 1 384K 5.25" 286 Floppy	Add \$25
Add 1MB RAM	Search MD \$20
To 80MB Hard Drive	Add \$145
To 120MB Hard Drive	Add \$275
To MS DOS 5.0 (Upgrade)	Add \$80
To VGA-639K Graphic Card	Add \$80
To VGA-1MB Graphic Card	Add \$50

Warranty: Limited Time Special  
3 Years Parts & Labor on all above systems

**Special: Turn Key Solutions & Software Training Videotapes**  
—The Video Professor

**CHRISTMAS PRESENT** All system purchasers are entitled to enter for a chance to win fabulous prizes will be drawn on the 24th Day 1991

# SHARP

## October Special On all Sharp Electronic Organizers

### Major Features:

- Calendar
- Schedule
- Telephone Directory
- Memo Pad
- Anniversary
- Clock
- Calculator

Model			
ZQ-2000	ZQ-5100	IQ-7000	
ZQ-2200	ZQ-5300	IQ-8100M	
ZQ-2400			

**Start from \$87<sup>99</sup>**

While supplies last



1445 West Broadway,  
Vancouver, B.C. V6H 1H6  
**736-4488**

# On Target

by Tom Ichniowski



### Products On Target project planning

**Publisher:** Software Corporation, 10000 Town  
Square, Cupertino, CA 95014-2702 (800) 333-  
1000 (415) 951-1010  
**System Requirements:** IBM or compatible with  
286 or higher processor (MS Windows 3.0 or higher),  
1 MB memory (1 MB recommended), DOS 3.1  
or higher, monochrome or color monitor (EGA,  
VGA, SVGA, MCGA, Hercules), mouse is recom-  
mended.  
Price: \$597, 1990

**On Target:** The Windows open is need of a pro-  
ject planner that is quick and easy to use.  
Key features: Master Schedule: custom viewing  
options, automatic or manual task status and  
scheduling of tasks, cost and resource, resource  
usage and cost, task notes on task, custom  
task, task notes, background location, status,  
notes and tasks on report export and report  
MS-DOS and CSV file copy presentation to  
other Windows applications (reports to Excel),  
use on other computers or install on a network  
over LAN-WAN using In-Range support.

### Overview

**O**n Target creates project plans from  
an outline of tasks that you submit as  
a spreadsheet. Multiple projects can  
be entered in a master plan so you get a  
complete picture of what needs to be done.

Plans can be entered in different ways. Time  
Units and Work Flow (task-based tasks can  
be linked with other tasks or to resources,  
Resource calendar to projects (sample, cost,  
etc.) are entered in the Resource  
spreadsheet. When a task is changed, the  
Target can immediately recalculate and  
recalculate your relevant task or estimate  
the change effect. The reports include  
flow charts, graphs, spreadsheets and task  
calendar reports.

### Met Head for the First Try

On Target uses many standard features  
found in personal information managers,  
which makes the program easy to use. It  
features connections between tasks, easy copy-  
ing and linking of tasks, and allows for a  
personal or custom level in the program. On  
Target is more personal information manager.

it. Though it specializes in managing pro-  
jects, it combines these features with project  
calendar that organizes your plans before  
tasks are easy to figure out. For instance, if  
you have to do to complete a task then it  
shows the task bar on the graph.

On Target's presentation on a 28600  
was good but I do not recommend running  
this on a 386. Many Windows applications  
cannot be run efficiently on a 386 and On  
Target was much too sluggish there even  
on a 10 MHz 386.

The key to On Target is to take between  
tasks and resources and its recalculation  
recalculation ability. On Target can auto-  
matically or manually recalculate and recal-  
culate relevant tasks when one task is  
changed. When things change, not only  
schedule in On Target is simple. Linking  
tasks and resources also allows you to man-  
age resources such as people and costs. For  
example, you can assign tasks to people and  
then get an indication of schedule to see how  
they are used to see whether you can  
assign them any more tasks.

Presentations are professional looking  
and are clear even with black and white  
printers where colors cannot be used for the  
largest portion of the reports. But to get  
the most from reports, a color printer  
should be used. Reports can be extensive  
(e.g., 8 pages by 8 pages), such as the  
monthly wall calendar. The print preview  
makes it easy to view large presentations  
before printing.

Does On Target make project planning  
easier and faster? I don't see how it can't.  
All you do is enter the task information and  
enter relationships between the tasks and  
resources and the Target does the rest. The  
flow spreadsheet is Version 1.0. On Target is  
a very easy to use, I look forward to seeing  
what future versions have in store. □

**Software Corporation** is a sister company to Software  
Systems Corporation, a company specializing in  
independent testing, analysis and other  
software products. For further information  
please 800-333-1000.



# Win

# An Oki Laser Printer

1. Fill out this questionnaire
2. Send it to THE COMPUTER PAPER.
3. We'll enter your name for a draw on an Okidata OL400 LED Page Printer.

Draw date is Jan. 16, 1992 at the Pacific Rim Computer & Communication Show



8-C EDITION

Name/Title: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City, Prov.: \_\_\_\_\_  
 Postal Code: \_\_\_\_\_  
 Telephone: \_\_\_\_\_

This information is confidential. You will NOT be put into mailing list. The information in this questionnaire will remain in strictest confidence.

## THE COMPUTER PAPER Reader Survey

### Who are you?

How old are you?

- ☐ Under 18  
☐ 18-24  
☐ 25-34  
☐ 35-44  
☐ 45-54  
☐ 55-64  
☐ 65+

Are you:

- ☐ Male  
☐ Female

What is your highest level of education?

- ☐ High School  
☐ Some college/post secondary  
☐ University degree

What is your household (or available) income?

- ☐ Under \$20,000  
☐ \$20,000-\$29,999  
☐ \$30,000-\$39,999  
☐ \$40,000-\$49,999  
☐ \$50,000-\$59,999  
☐ \$60,000-\$69,999  
☐ \$70,000-\$79,999

### Who do you work for?

Are you employed?

- ☐ Yes  
☐ No: If you're not employed, please skip to the end of questions. (Indicate you are a computerist)

My business organization is focused on activities that you've described as primarily:

- ☐ Local  
☐ Regional  
☐ National  
☐ International

Which of the following best describes your company's primary business?

- ☐ Agriculture  
☐ Automobile  
☐ Finance, Insurance, Real Estate  
☐ Government  
☐ Health Care  
☐ Manufacturing  
☐ Mining  
☐ Retail  
☐ Service  
☐ Transportation, Distribution, Logistics  
☐ Utilities

What kind of firm do you work for?

- ☐ Business firm  
☐ Local, Provincial or Federal government  
☐ Private school, Private hospital or private institution  
☐ Professional organization  
☐ Self-employed in own business

What was your company's total gross sales volume or revenues for 1991?

- ☐ Under \$100,000  
☐ \$100,000-\$249,999  
☐ \$250,000-\$499,999  
☐ \$500,000-\$749,999  
☐ \$750,000-\$999,999  
☐ \$1,000,000-\$2,499,999  
☐ \$2,500,000-\$4,999,999  
☐ \$5,000,000-\$9,999,999  
☐ \$10,000,000+

How many people are employed full-time at your location?

- ☐ Under 10  
☐ 10-19  
☐ 20-49  
☐ 50-99  
☐ 100-199  
☐ 200-499  
☐ 500-999  
☐ 1,000-4,999  
☐ 5,000 or more

What is your exact title or job function?

- ☐ Chief Executive  
☐ Office President/General Manager  
☐ Vice President/Assistant Vice President  
☐ Treasurer/Controller/Chief Financial Officer  
☐ Division President/Division Executive Head  
☐ Manager/Assistant Manager  
☐ Supervisor/Assistant Supervisor  
☐ Assistant/Manager Support/Technical person  
☐ Owner  
☐ Partner  
☐ Consultant  
☐ Contractor  
☐ Professional (other than above)  
☐ Other

In what professional or administrative area do you primarily work?

- ☐ General Management  
☐ Sales  
☐ Marketing  
☐ Production  
☐ Distribution  
☐ Manufacturing  
☐ Research & Development  
☐ Information  
☐ Office Services  
☐ Customer Service  
☐ Purchasing

- ☐ Personal Accounting  
☐ Administration  
☐ Data Processing Operator  
☐ Personnel  
☐ Other

Approximately how many micro-computers does your company have?

- ☐ Don't know  
☐ 1  
☐ 2-4  
☐ 5-10  
☐ 11-24  
☐ 25-49  
☐ 50-99  
☐ 100 or more  
☐ None

### How do you use a computer?

Do you use a computer:

- ☐ At work  
☐ At home  
☐ At work and at home  
☐ Not currently  
☐ My use is mostly word processing, design, and art  
☐ All office work  
☐ None of the above

What type of computer do you have?

- Desktop IBM brand micro-computer  
 Apple II running software  
 Apple II running OS/2  
 Mac  
 Unix  
 Asset AT  
 Apple (Macintosh)  
 Other  
☐ None

How long have you used a computer?

- ☐ Less than 6 months  
☐ 6 months to 1 year  
☐ 1 year to 3 years  
☐ 3 years to 5 years  
☐ More than 5 years

### What do you plan to buy?

In the coming year, what is the value of intended purchases for your company or organization of microcomputer hardware and software?

- ☐ \$0  
☐ Under \$1,500  
☐ \$1,500-\$2,500  
☐ \$2,500-\$5,000

Other

- ☐ \$5,000-\$9,999  
☐ \$10,000-\$14,999  
☐ \$15,000-\$19,999  
☐ \$20,000-\$24,999  
☐ \$25,000-\$29,999  
☐ \$30,000-\$34,999  
☐ \$35,000-\$39,999  
☐ \$40,000-\$44,999  
☐ \$45,000-\$49,999  
☐ \$50,000+

What level of influence do you have over these purchases?

- ☐ No input  
☐ Slightly influential  
☐ Approximately  
☐ Fully influential  
☐ All aspects of decision are mine  
☐ Other  
☐ N/A

In the coming year, what is the value of intended purchases for you personally of microcomputer hardware and software?

- ☐ Under \$1,000  
☐ \$1,000-\$1,999  
☐ \$2,000-\$2,999  
☐ \$3,000-\$3,999  
☐ \$4,000-\$4,999  
☐ \$5,000-\$5,999  
☐ \$6,000-\$6,999  
☐ \$7,000-\$7,999  
☐ \$8,000-\$8,999  
☐ \$9,000-\$9,999  
☐ \$10,000+

How willing are you to travel anywhere in the city for a microcomputer product or service?

- ☐ Not willing at all  
☐ Slightly willing  
☐ Very willing

### What do you think of us?

Please write: How many other people on your copy of The Computer Paper?

- ☐ 1  
☐ 2  
☐ 3  
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☐ 100

How much time do you spend reading the Computer Paper each month?

- ☐ Less than 10 minutes  
☐ 10-20 minutes  
☐ 20-30 minutes  
☐ 30-40 minutes  
☐ 40-50 minutes  
☐ More than 50 minutes



How many of the best six editors have you read?

- 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐

What other Vancouver-based publications do you read?

	Freq.	Once	Weekly	Never
Vancouver Sun	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vancouver Province	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Georgia Straight	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
West Coast	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vancouver Courier	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Business in Vancouver	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Special Magazines	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BC Business Magazine	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BC Economy	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> None of the above				

What other computer magazines do you read?

	Freq.	Once	Weekly	Never
PC Magazine	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PC Computing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Macintosh	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MacUser	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Byte Magazine	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Computing Canada	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Computing News	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Input	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Technical Computer News	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Word Access	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> None of the above				

Do you see or think you see in The Computer Paper?

	Freq.	Once	Weekly	Never
Events	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Columns	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Reviews	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Features	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Software	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> None of the above				

How do you rate The Computer Paper as a publication?

- 1 ☐ Excellent  
2 ☐ Good  
3 ☐ Average  
4 ☐ Fair  
5 ☐ Poor

What do you like best about The Computer Paper?

	Freq.	Once	Weekly	Never
Feature articles	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Newsletters	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Local news	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Advertising	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
How-to files	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Overall	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Suggestions for improvement:

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Do you have any other comments on the publication?

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I enter my name please (don't) include my phone number at 438-1111 to be entered into our bi-monthly drawing. I'll receive one of the winning items. I'll be drawn from our computer magazine subscribers. Drawing will be judged by a local official in each of the provinces of Canada every month. Winner will be required to attend a drawing ceremony. Employees of Canada Computer Paper and their relatives are not eligible to win. Drawing is held Jan. 1st, 1991.

1. FOLD HERE AND

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1. FOLD HERE AND











## HOW TO

# Get the most out of Windows

*Excerpts from the documentation of Dr. Torgel, spiritual ancestor of Windows.*

**Windows 3.0** has three system modes of operation, one of which is designed to take advantage of specific hardware conditions.

- 386 Enhanced Mode
- Standard Mode
- Real Mode

Following is a discussion of the major modes, and suggestions for optimal configuration of your system.

### 386 Enhanced Mode vs. Standard Mode

386 Enhanced mode provides optimum functionality for DOS-based applications running under Windows. However, Windows applications operate equally well in Standard Mode.

The main difference between Standard Mode and 386 Enhanced Mode lies in the fact that some Windows applications are limited in 386 Enhanced Mode when more sophisticated operations of non-Windows applications, including multitasking, are running in a window (as opposed to "full-screen"). These advantages are additional processing time (devoted to Windows house-keeping tasks) and result in a decrease in speed.

Another benefit that 386 Enhanced Mode provides is Virtual Memory support, which is the ability to use a portion of your hard disk to simulate additional RAM. Normally, when you keep all applications in RAM, work on the same program. When you run out of RAM, you cannot load additional applications. With 386 Enhanced Mode, the RAM memory allows you to swap portions of RAM out to the hard drive and back again if you like to run numerous applications all at the same time; you will want to test this option.

Choose 386 Enhanced mode if you typically use a combination of DOS-based and Windows-based applications, and if you use a computer system with more than 2 megabytes of RAM available for Windows processing, and if you want to use virtual memory.

**NOTE:** Windows applications operate essentially the same way in all three modes. Windows 3.0 can handle multiple applications and multitasking in 386 Enhanced Mode (Standard Mode, and even in a limited degree) Real Mode.

### A SPECIAL NOTE FOR 386SX SYSTEMS

On some systems the additional processing overhead associated with 386 Enhanced Mode may cause a noticeable drop in speed and performance. This is especially true on machines with 2 Meg of RAM or less, and on 386SX machines. For those systems, we highly recommend you use Standard Mode.

The problem is that 386 Enhanced Mode requires more complex processing overhead (as discussed above). The 386SX uses the much 16-bit BUS interface as the 386.

If you run a machine based on the 386SX chip, you will most likely want to run Windows in Standard Mode. If you own a 386 with 2 megabytes of RAM or more, you should run in Standard Mode.

386 systems with less than 2 meg of RAM will run in Real Mode.

Here is a summary of the advantages and disadvantages.

### STANDARD mode:

#### Advantages

- You can run DOS applications that include "DOS sensitive" technology.
- Take advantage of the protected mode of the 386 and 387 microprocessors.

#### Disadvantages

- You can run non-Windows applications better.

—All DOS applications are supported, while any Windows applications is missing, and all Windows applications are supported while any DOS applications is missing. This means multitasking is restricted in Windows applications only.

# JetRam™

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Upgrades to LG384 MB



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<b>Cash Register</b>	<b>Recommended Hardware Requirements:</b>
<b>Inventory Control</b>	1 - 386 Computer with 10 MB Hard Drive
<b>Account Receivables</b>	1 - Profitek Report Printer
	1 - Profitek 37 Receipt Printer
	1 - Cash Register with Computer Interface
	1 - Profitek-485 Retail Sales Software
	4 Hours of Training & 3 Months Support
<b>General Ledger</b>	<b>Add as you Grow!</b>
<b>Accounts Payables</b>	Any module you choose to General Ledger, Accounts Payables, Payables or Profitek-485, is fully integrated with all other Profitek programs.
<b>Fixed Assets</b>	Change from a single user system to a Multiuser Shared system and add other modules, at a total offer that's Great! System scaling eliminates transaction to share its modules.
<b>Purchase Order</b>	Choose from the 10 downloaded feature and other Modules programs, you can use as Profitek, Editing programs designed for business, plus many, for costs, and young people (available for packing and all Regions).



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### 386 ENHANCED mode:

#### Advantages

- DOS applications can be run in an application window (see full screen), to take advantage of the graphical enhancements.
- Other applications will continue to process in the background while you work with the current application.
- You can Cut and Paste information between non-Windows applications.
- Virtual memory uses your hard disk to simulate RAM.

#### Disadvantages

- Background processing of other applications means a loss in speed of the current application, since it is sharing the processor with the other, background, applications.
- MS Enhanced Mode requires considerably more overhead processing. On one test system, such as the 386SX, this can lead to a significant loss of speed.

### INCREASING PERFORMANCE WITH SMARTDOVE

SMARTDOVE is a disk-caching program that can cache an area of RAM to use as cache

for your storage for frequently accessed pieces of information. Giving this information from RAM is much faster than retrieving it from the hard disk every time you need it. There are costs that go along with the benefits. The primary cost is memory: the disk cache uses the RAM of your machine (as only 1 or 2 Meg of RAM, a large cache may be a somewhat hefty fee).

Below are some sample machine specs, along with suggestions for configuration. Remember that there may be other factors to consider such as your machine's bus, examples are not meant as a starting point.

### 1) 286-12MHz, with 1M RAM

Don't use SMARTDOVE. This level of RAM means that you need the disk cache. Windows needs at least 500K RAM to run in Standard Mode, and if SMARTDOVE is taking up part of it, Windows will probably refuse to start in Standard Mode! (Instead use HATCHDOVE. This is the optimal way to use the DOS 3.0/3.11 cache, but the results of using it are not as good as SMARTDOVE, after considering the efficiency.)

### 2) 286-12MHz, with 2M RAM

Your system has enough memory that Windows should definitely start up in Standard Mode, but you will probably want to conserve memory for multiple applications. Try using up SMARTDOVE but this with the following line in your CONFIG.SYS file:

DEVICE=SMARTDOVE\SMARTDOVE.DRV 256 128

### 3) 286-16MHz, with 4M RAM

Your system has enough memory to bypass Standard Mode, and a formatted hard sector will help a great deal. We suggest garbage 1 Meg, set up in your CONFIG.SYS file like this:

DEVICE=SMARTDOVE\SMARTDOVE.DRV 512 512

### 4) 386SX, with 2M RAM

On this machine you will want to try to use Standard Mode, but a formatted hard sector will help a great deal. We suggest garbage 1 Meg, set up in your CONFIG.SYS file like this:

DEVICE=SMARTDOVE\SMARTDOVE.DRV 256 128

### 5) 386-33MHz, with 4M RAM

Enter Standard Mode or MS Enhanced Mode and optimize on this option. If you run many DOS applications, you will want to use MS Enhanced Mode, if you run chiefly Windows applications, you may want the simpler but faster Standard Mode.

We suggest a 1 Meg SMARTDOVE cache set up like this:

DEVICE=SMARTDOVE\SMARTDOVE.DRV 512 512

### 6) 386-33MHz, with 8M RAM

This machine is big enough and fast enough that MS Enhanced Mode may be desired. In these models, go ahead and use it. Use up SMARTDOVE like this:

DEVICE=SMARTDOVE\SMARTDOVE.DRV 1024 1024

With 8M and, considering the particular nature you, you can definitely afford a 1 Meg cache! However, if you typically run many non-Windows applications simultaneously, you may want to consider reducing this to 500K or 256K. This will give you the power of one more virtual DOS machine on one a DOS application, but at a slight decrease in cache performance.

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Pretty Green, The Computer Page, Aug 91

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**OTHER GENERAL  
CONTINUATION TIME**

- 3) **Use PEEKS-50 to increase CACHEDATA.**  
Theory is more than enough to install theory, and additional PEEKS use conventional memory.
- 4) **Use the RAM monitor.** There are two Gold-Key memory managers that do the most thing in PEEKS-50, only more efficiently and both cover the same. You may wish to consider using one of these optimization examples, `quick.vtl` or `HSMAK-4` in place of `SYSTEM-50`. Similar utilities exist for PEEKS-based machines, but none of them are as good as these. Use `HSMAK-4`. Only one set of them if you want the same features. I provide...
- 5) **Speeding the command LATE.** `SYSTEM-50` (for example) interprets everything done in 7.5 lines the number of logical drives available in your system and uses a small amount of conventional memory.
- 6) **More detailed information concerning optimization of Windows 3.0 is available in the Windows 3.0 Reference, especially Chapters 14, 15, and 17.**

## Microsoft Introduces Low-End RDP Packages



SEEDING, WASHINGTON, D. C., SEP 18 (UPI)—The Microsoft Corporation has announced Publisher, a \$199 personal desktop publishing program running under

Fidelity was announced in New York this week along with a Western version of Microsoft Works and Money, a home and small business financial management program not unlike Quicken, as part of Microsoft's Software Series.

Constructs are:  $\alpha = .88$

<b>5995</b> <b>2D Animation</b>  <p>2D Animation The successor to the award winning animation software for IBM!</p> <p>Features up to 16-bit/24-bit image resolution, 30 frames per second, 100% vector graphics, and 100% digital effects. Image size up to 1024x1024.</p>	<b>VGA to Video</b>  <p>Convert your VGA graphics and programs almost on-the-fly into video. Output for generating slides and animation with ease.</p>	<b>\$1350</b> <b>V1000</b> <b>VGA Card</b> 
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multitasking more power and key equivalents, NTW is ready to implement over the next Windows interface. But of all, it does it simple you to change the way you use Windows.

NTW is the kind of product that significantly improves the way the Windows works. Like other Windows add-ons such as REP and WinView, it enhances the performance

by increasing the execution speed of the windows, and enhancing the functionality of the environment. Some of Windows 3.1's major issues of the first generation improvements found here, when it comes to (and according to Microsoft, this won't be until sometime in 1992), NTW will make enough sense to make it a must-have for any serious Windows user. **D**

## Microsoft Windows 3.11

Continued from page 10

Microsoft says that because of Publisher that makes it easy to use a PageWizard, it will also make the design process.

Users select options and create operations from PageWizards to the design and layout of the publication according to Microsoft's PageWizard walks the user through the creation of 10 custom publications such as business cards, greeting cards, four-fold brochures and various business forms, including envelopes, the client and expense reports.

A user wanting to design a newsletter must answer such questions as how many columns are needed. If you select a three-column layout, PageWizard will tell you that a two-column layout will provide the three-column format, but will also offer first and last (also first) options. You can then continue with the three-column layout or choose something different.

Users can create graphics in other programs, save them in one of seven formats including TIF, EPS, PCT, DIB, then import them into Publisher. After placing the graphics in the documents, you will then instead the program has controlling the graphics. Publisher includes a spelling checker, but no thesaurus. The program also includes a dialog box and table features. Microsoft fonts are supported, including the Windows fonts.

## Microsoft Intros Works for Windows, Money



REDMOND, WASHINGTON, U.S.A., SEP. 14 (AP) — Microsoft has announced Works for Windows, a \$199 Windows 3.11 version of its integrated software package.

Works for Windows includes a word processor, spreadsheet, charting tool, database and drawing capabilities, and is supported on the most common or least cost Windows hardware. Works for Windows, part of Microsoft's Solution Series, was announced in New York last week along with two other new programs for the small business or home user: Money, a financial management program, and Publisher, a desktop

Continued on page 17

# BACK TO SCHOOL SPECIALS

## 386SX-16 System

- 80386SX-16
- 1MB RAM
- 1.2MB Floppy Drive
- 32MB Hard Drive
- 14" Super VGA Color Monitor
- 512K VGA Card
- 15, 1P, 1G
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- Monochrome Video Card
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386-16	\$778
386sx-16	\$898
386sx-25	\$948
386sx-25	\$1038
386sx-33	\$1188
386sx-40	\$1228
486sx-33	\$1738

### System Upgrades (Purchase with System)

- Triplex 1MB VGA Card
- and Scanning 14" SVGA Color Monitor 1024x768 20ms \$510
- Video Card with 28.4 MHz
- 4. Colorless 1024x768 VGA Color Monitor 1024x768 20ms \$100
- 1024x768 Quantum 100 Hard Disk Drive 40MB Cache 10ms \$150
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# Ersatz Windows: The Future of DOS?

by Graham Brown

I recently read a major PC publication where the writer complained about the changes to the new families of Microsoft's Word versions 6.0 and 6.0a. He piped that the company had reduced the features, and by changing all of the command keys, not leaving him to reflect—or about—the program.

If, in fact, that's the new reason to discontinue long-term users who used, especially if the user is familiar with the "Windows standard" set of commands. Microsoft, in a bold move that has generated significant amounts of criticism, dropped the old Word's combining command structure and interface for a more elegant and consistent one known as **MSB Command User Access (CUA)**. Now users will definitely find it easier to learn than the old version, and many of the difficulties they require are translatable on other programs (in contrast that has caused Microsoft users' wrath). Experienced users can opt to use Word 6.0's keyboard shortcuts instead of version 6.0's, if they prefer.

It is a shame that most PC programs use a tool like Microsoft's popular **Quattro Pro** spreadsheet, which can completely adapt to new standards in such different command modes (and one of the reasons Lotus is upset over Quattro's inclusion of its functions is that it is a **Lotus** function).

Another strike on the personal future of which CUA is a part, however, is the fact that over 50% of PC users' standard programs will use what (at first) referred to as "ersatz Windows." Why would these applications give up the real thing? In word, good. The performance hit is just as great for average users as companies. Even with 286s, 386s or better, one will find that Windows' sluggishness. Take a look at any multi-tasking comparison: **WordPerfect** and the **Microsoft Word** are only marginally better. Word overtook competition in performance tests.

However, the option that the standard-based **Microsoft** has lost (which is lost in **MS-DOS 5.0** or **6.0**) is **Quattro** and **MS Word 6.0**. It is a pity that the loss of the future of **Microsoft** production-level word processing (and other spreads) are better able to cope with the long demands of a full "high-end" GUI (which probably doesn't exist) than **MS-DOS**, however. **Microsoft** has played with many options and a better (and better) idea of the best kind of performance, cost-effectiveness and command compatibility with the standard-based Windows 6.0a, to a lesser (and significant) extent, when graphical environments with their own interface design guidelines such as **PC/XT/AT** (Open Link) and **Windows**.

While there are already documents where a user is told that the display is preferable, it is not as if the user is not

this standard GUI-based application interface found in **Microsoft** 6.0, the new **MS-DOS 5.0** editor and Shell represent the best of the close-up-based windowing environment found in **Windows 3.11**, **MS-DOS 5.0**, **Quattro Pro**, **Word 6.0**, **WordPerfect 6.0**, and numerous other low Windows products that have disappeared, never again, and

it is a shame that most PC programs use a tool like Microsoft's popular **Quattro Pro** spreadsheet, which can completely adapt to new standards in such different command modes (and one of the reasons Lotus is upset over Quattro's inclusion of its functions is that it is a **Lotus** function).

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# Hollywood

by David Karger

Finally! Hollywood presentation software Version 1.0  
Manufacturer: Bill Carpenter  
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Price: \$599



## Overview

To quote the reference

guide, "Hollywood is a presentation graphics software package, designed for the Microsoft Windows 3.0 environment, to help provide for business, government and education create quality presentations with ease." It can be used to make disk-based presentations on your computer screen, create and put film for creation of slides through a video board in video projection like movies (it supports a laser printer, speaker's cone, headphones, three or slide duplicator for distributing slide your presentation).

Before getting into any detail about this product, it needs to be said that software reviews in general have needed a lot of a change. They often are one of complexity they produce only require a few minutes of continued use, they are not better off their features can be broken into bits.

In an age of "the more with less" even presentation agencies have a hard time finding and resources to continue in becoming a package such as Hollywood. This means that if a software package is going to be used in the future it should be able to use "best work matter" (to quote BC TEL) in the software "best work matter." For the software to work matter, it must adapt and have also the user concerned in using the package for, not just try to push a menu feature into a menu layer to provide.

Report systems and AI technology such as neural nets have progressed to the point where "smart" software must be possible, in other words, make the software intelligently run down the features the user must make in get the results needed. Many large products today have the user to make a choice out of producing such things as slides, overheads, presentations and documents. The user should be free to concentrate on the content, not details.

Having said all that, surprise, the biggest criticism of Hollywood is the complexity of the software. It is not IBM's fault, however, just as in producing a storyboard for a movie, presentation and slide production involve mapping "things happening" over time, and this adds in even dimensions of complexity. As with all IBM products, this use is presented in a form and way will produce, with no real mistakes.

## Installation

The first use of a software package is the installation. Hollywood comes in two files: 1.44MB (1.25 or 1.44) floppy (install), and if you choose to install the software file (installation, clip art, overlay files, overlay maps, manual and MGRCorp file server software), you are looking at an

install time of 11 minutes, installing everything with up to more than 1MB of disk space plus 1MB to be in the temporary file space. Install happens from inside Windows, using the "File" command under "File" in the Program Manager. The purpose of this review, Hollywood was installed on a 386/25MHz machine, IBM VGA, 1MB of disk space, Hercules Graphics board card, and Olivetti monitor (the experience in other words). Overall, installation was simple, with no problems, other than being a bit slow.

## Performance

First time running the program crashed. It is a completely new computer since the opening and some feature selections, etc. This would require a faster hard drive and more memory, but it still seemed like it was for a little frustrating for real world presentation. Loading saving graphics and doing diagrams took longer than, and saving slides would take time.

One area that needs attention is the storyboard window. In slides showing you multiple slide boxes representing each slide or presentation screen in order of appearance. Displaying multiple slides is relatively easy, but the challenge of a storyboard presentation is to make the order sequence of slides make sense. Hence, as you are designing your project, you are often calling up the storyboard to see how the slides are progressing and how Hollywood is fairly slow, going into the slide and putting the slide into a slide. There must be a faster way of editing and putting the slides into the storyboard, though, a storyboard-like graphics card and hard drive would probably help a great deal.

## Features

Hollywood has more features than you could slide a slide on, leaving such a good feature, however, continuous feature help, it comes with a small number of templates and a software for building the basic structure of your presentation. It also manages for you to use or export data from spreadsheets, word processing programs and various "word" files, or your data sources. For drawing, there are eight data sheet types (line, flow, names, etc.) with 540 effects, including text, combinations, charts, etc. Text charts include text with different font types, word tables, bullet points, list and many other options.

Drawing tools are available from the tool bar. The lines, rectangles, circles, border lines, and much more. Color can be used in the form of the various color models, RGB,

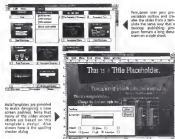


## Aldus Persuasion Version 2.0

By Steve McPherson

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## Overview

Presentations are made during the presentation module using Ausim. Topics that systematically focus on and then to each slide. You can enter your text in Perfection or import it from other word processors or outlines. Drawing tools and custom table schemes allow you to enhance your presentations or just use impact art produced in other programs. Perfection has two chart formats (bar, line, table, etc.) to present data with, and you can customize chart formats. Text boxes can be inserted in Perfection or imported from other programs such as Excel or Lotus 3-4-5. Perfection is designed for the output of three kinds of slides: overhead, handout, and slide show.

### Installation

Permanence sounds very easily into your hard drive. This makes sense: you have at least 4 or 7 MB of free space—the program is huge. Its loading on a 10-MHz 386SX performance was acceptable but a little sluggish in places. You could use the program on a 386, but you would have to be a patient person.

Permanence takes a unique approach to creating presentations. You don't need to create slides individually. Permanence uses one permanent outline and creates the

Participants can post presentations online and create the slides from a template the same way that a desktop publishing program formats a long document or a slide deck.

### That's a Title Placeholder

slides from a template the same way that a desktop publishing program formats a letter document in a style sheet. Also, the program folds your presentation with its support materials (audience, etc.) in the changes made in one are cascaded to the other automatically. This makes it easy to revise quality presentations in 30 seconds and you can change the look of your presentation without republishing.

Parsons' word processor is portable for a graphics and presentation package, making it good choice if you need desktop notes or handouts for your presentation. The word processor includes a spell checker—a feature that is missing in so many packages. Programs like Presentation can be used in the last stage of production should others find a spell checker. You should be able to check spelling on-line, even presentation-wise, but if the film is in the other program you may have to use it.

### Conclusion

**John Forman**, has everything the others have, but the idea of using templates to create presentations sounds cool. It's successful if specialists in producing quality slide shows feel and really and doesn't dilly on the other aspects of drawing, text and charts. This full-featured package should be considered by anyone doing the type

Steve McKeeth is a senior partner in DR Software Systems Corporation, a company specializing in independent testing, evaluation and review of SOG-based products. For further information please dial 616-491-7171.



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# Arts & Letters Graphics Composer

by David Wojer

**Product:** Arts & Letters Graphics Composer  
**Version:** 3.0  
**Manufacturer:** Computer Support Corporation  
**System requirements:** IBM PC/AT or 100% compatible, DOS 3.0 or higher, Microsoft Windows 3.0 and also, IBM VGA, pointing device recommended.  
**Price:** Not available at press time.

## Overview

Graphics Composer is a software tool for creating diagrams, illustrations, signs, posters, etc. It comes with over 3000 images and 80 outline typefaces. It allows you to design graphics to black & white, gray scale and color. Useful for both the graphic artist and the business user for designing corporate brochures, business cards, data sheets, and more.

## Installation

Installing Graphics Composer is a snap. It has a run install program which runs under Windows 3.0. It's prepared, though, there are a total of 12 floppy disks in shuffle in and out of the drive. It took about 30 minutes to install all the files and the program. One can only hope that optional troubleshooting manuals under acceptance, and others in its hard software drive CD-ROM disk (12 floppies in a bit stock). Also, be prepared to give up 5MB of disk space or more. Once everything is installed, though, the hard part is done.

## Performance

The biggest problem with this package is that it's a little slow on the screen rotations. Opening some of the sample files can take a minute or so, and that's too long. One must pause during the files are actually being loaded into memory, which means the screen is refreshed each time the screen is refreshed, thus a faster machine would speed things up a bit. A compressor may help a great deal, but there is no extension of disk in any of the manual. Overall, you should get some use with this program.

## Features

Graphics Composer has a full complement of graphics tools. Since it runs under Windows 3.0, it has a familiar user interface with no on-screen rotation and on-screen help. You can combine the clip art that's provided with your own drawings or scanned images. It will import and export a number of different formats including ANSI, ASCII, CDF, CDF, PCL, Postscript, ASCII, TIF, and WMF.

Graphics Composer is basically a vector drawing program and has many features for moving, rotating, drawing and positioning text. One can create drop shadows, distortions, 3D and other common visual effects. The quality of the clip art in this package is one of its greatest accomplishments. Along with the user manual, there is a clip art handbook, which shows examples of the files included, and how to identify the file groups. The range of clip art is significant. It goes from very basic designs of objects through quite detailed drawings of sport cars, for example. Animals, body parts, costumes, maps of the world, all are of the high end quality.

The main feature of Graphics Composer is that it provides the user with the ability to

create their own graphics from scratch, or to use pre-designed clip art to produce designs quickly.

## Conclusion

Graphics Composer is a good, solid product with no glaring problems, other than being a bit slow to work with. Its asset

creating images is the quality, quantity and variety of clip art. The drawing tools are more than adequate for most general users, although for serious graphic production, it may be a bit lacking. There is no reason of the program which would cause difficulty for most the most basic use, especially since it runs under Windows 3.0, which takes away a large part of the usual learning curve. All in all, a good package, one implying, too good.



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Special Advertising Section

# Home is Where the Campus Is

by Colleen Conroy

**T**hink of school and you probably think of a building—made walls, a floor and ceiling.

Of course, most schools agree—with real roofs sitting on desks and teachers standing in front of blackboards—the class is a small building shape as well as walls and children please education beyond the walls of a school building.

"They can sit in a classroom or lecture and never about the world and why things happen," says Fred Lortie, who heads the world's first online university, the New School for Social Research's Connected Education. "We want to find out what makes things tick, and how our universe and lives are changing because of new technology. Most of the time it's hard to stretch that tick, that discipline open for knowledge. Taking a course is not very in itself."

But what the educational ticks for kids and adults has never been better. The online community offers opportunities today that just a decade ago were little more than high-tech dreams.

"The boundaries between home and school have always been right, but that is changing as these boundaries become more permeable," explains Chuck Lynd, director of the information services for L&L Resources, a University of California at Los Angeles consulting firm. Lynd, a former classmate, is also manager of the Education Forum (303-430-0630).

Our reason, these boundaries are becoming sticky to the very access to

information. Take, for example, a kid with a scanner. Her projects—something few children have been able to master since. Today, many parents just think on the computer rather than meaning and growing up the way to the library. And, instead of studying textbooks, students can sit on three-dimensional graphs of the universe using computerized drawing.

Ross Love, a professional free-lance photographer, told his 11-year-old son, Bobby, that after he won the Nobel Prize for science, he could pay back the bill for a loaned using. Bobby is now a student of this project. Bobby achieved a second place finish for the project and was recognized as his school's first science student.

While using a computer to grow a science fair prize, the results for parent and child will be even more valuable. "There is a lot of research showing that if a parent is involved in a child's education, it makes a big impact on that child's success," says Lynd. Using Computers to get involved across our purposes. It gives the parent and child a chance to work together, and it makes the child realize science is fun.

What can you do online? You can create your child's special interests—history, science, math, biology, art—kindergarten or to explore the online resources relevant to that area. Many kids will be thrilled with the special time they spend with their parents as well as with sharing in the growing online world.

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Sometime children can benefit from choosing you path in different parts of the world. Not only will they learn about other cultures and lifestyles, but also they will get a chance to practice their writing. The path can be found in the

**Standard Feature (SO STUFI)**, the Foreign Language Feature (SO FLAHO) and many of the special interest features.

**NewsGrid (SO NEWSGRID)** is a fun way for us either child to learn his or her place in the world by looking up with current events. Students can also electronically "clip" news articles about special topics in the **Executive News Center (SO ENX)** which could help them develop expertise in various areas. A collection of the articles might one day appear in a valuable resource for a research project.

Which young children can research projects in **Global Awareness Knowledgebase (SO GAK)**, suitable and digital studies will benefit from searching through **Database Plus (SO MADDP)**, especially by learning how to define key words and phrases. Such as research focus analysis of focus on a project's specific topic, something that may not be done as effectively using traditional research tools.

The feature offer a special resource another resource called **Learn a Question about World Issues in the Awareness Forum (SO AWAREFORUM)**, for example, and chances are the answer will be provided by a professional researcher. You can study how people online who have a special expertise and who are willing to share that with young people. This is, perhaps, the best benefit of the online medium," says Lead, Fourth-grade Project, Chalmers, to his friend, Douglas, who feels with a software companion that required him to build a model of the solar system. (And his state's most important high-achieving with writing from a doctored) With his find by his wife, Patrick used a Microsoft computer to create an interactive model.

"Our problem was that we needed more nice graphics and sounds, and we had only a couple of hours to go to the model together. Computerize in the process," says Douglas. He showed Patrick how to access the service with **Computer Information Manager**, and together they downloaded specialized information from the database **Support Forum (SO GANPHFORUM)**, and spare words from the Microsoft International French (SO MAGFREN).

"One thing is true: Computerize on a whole made the project. Of course, Patrick wasn't all that inspired. He has grown up assuming such things are possible in it's as big deal to him," says Chalmers.

When children pursue research in areas that are of a special interest for them, they are more likely to retain that knowledge over a longer period of time. "Kids can be independent researchers with online, asking questions that matter to them. Because of the technology, their life does become an independent learning," says Lead.

#### Schooling at Home

The ultimate independent learner is the child who is home-schooled at home. For a survey of home-schooling options, the belief that parents know best how to teach their own children. Instruction with local school systems, as well as the use of digital and guest-teaching, classroom-based parents are choosing now to send their children to school and are learning educating them at home.

This independent approach is gaining converts. In the early 1970s, there were an estimated 10,000 to 15,000 students being educated at home. That number rose to between 150,000 and 300,000 by 1987, according to Patricia Lane, a rising associate professor at Catholic University in Washington, D.C., and a contributor to the first textbook published on home schooling, *Home Schooling: Practical, Historical and Philosophical Perspectives* (edited by Jane Yon Gales and Mary Anne Finken, Aldine Publishing Co., 1989).

Although home schooling was the only way to get an education in some areas, today it is often viewed as a natural move. Parents who choose this option are looking money, as some of them make the decision lightly.

Mostly, half of home schoolers say they chose to get education in their children would follow special interests and needs in their own pace, according to Patrick Farniga, president of *Home Associates*, a home-based company that offers courses on home schooling. "Mostly, one-third of the reasons are, following home schooling is the best way to ensure their child's moral and spiritual development."

Perhaps the biggest advantage of home schooling is that it allows the child and his/her family to separate from the rest of life. "Home schooling is different from traditional schooling in that it places the emphasis on the learning process rather than the teaching process," explains Farniga. "Parents who home school for their children follow a project. They don't break life and learning into little sections called subjects."

For example, George Lane Gailley, home schooling parent from Dallas and vice-president of the Education Parents' Meeting and Library 12, "Home/Alternative Ed," believes in this approach. Three-year-old daughter, Rachel, has never attended a traditional school. Quite, who serves as the primary teacher, deals with subjects in broad terms. For instance, when Rachel started asking questions about dinosaurs, Gailley not only taught her the basic facts, but also read the natural resources to exhibit on, study, geology literature and history lessons. "I bring it all together so it is covered as a whole by Rachel," she says.

The young Rachel participated in a model United Nations program. The day after it concluded, she and her father logged on to **Computerize** and exchanged messages to visit with children from Ireland and Japan, as part of the **8225 90 Global Networking Project**. "This is the kind of resource information that can make studies so exciting to my kids."

One of the challenges of home schooling is to be aware of a child's interest in a topic and respond accordingly. Meeting that challenge is where Computerize fits in. When parents are using Computerize, "Mostly, when the difference between a child's life and a question" — they can log on to **Computerize** with their child and find an answer together. In this way, a young student can learn with confidence, by depending on himself in finding answers to questions.

Many home schooling parents find **Computerize** to be more than a resource in the subject area. It is also a support network that helps parents share ideas, support family and friends. Speaking about the Education Parents' Association Education Section, Gailley says, "It is a place where

you can find out what other people are doing."

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## TECHNOLOGY

Most are challenged rather than appreciative of the concept. "This kind of training is during the summer."

Parents considering home schooling also can check out programs near their homes and in the area. In the past, many parents have been disappointed by the quality of school education.

There are school administrators who appreciate the benefits of home schooling. For example, in the past, many parents have been disappointed by the quality of school education. In the past, many parents have been disappointed by the quality of school education.

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## EDUCATION

# Running Class in the Family

by Colleen Gossop

When pressed to answer that all-too-common question, "Why are you home schooling?" Little Applejack says it all: parents who don't identify as a high school senior and language arts teacher, she dotes like the way children were being taught to read, she believed a phonics-based program would produce better readers. Besides, she thought the home school day was too long for first graders.

In 1989, Applejack joined the growing herd of home schoolers in the city by enrolling her schoolhouse in a home-school-for-all day care. First, now 17, and Mark, 9, her husband, Eric, Jackie, 10, and Matthew, 11.

Living in Peace River, Alberta, a small town of 4,500, the family's life greatly became centered around the home school. "We didn't realize the impact it would have on our lifestyle," she admits. She couldn't be employed full-time, although the extra work provided for her home as income. Besides, she found it interesting to be a homemaker, helping solve intimidating problems for new mothers.

Although the teaching and learning approach in the Applejack home school is untraditional, much is accomplished in a day, and all of it is geared toward each child's individual learning needs and style. Typical activities include parent/child writing and drawing, reading aloud, working on problems and solving them, who are also home schooling.

But no day is really typical. One untraditional task is to read from a novel, one where each child selects and issues that need to be explored. For instance, when reading *The Boy's Book*, a novel about World War II and Hitler's concentration camps, Applejack realized how little any of them knew about Jews, their history, religious and culture.

Together they explored the topic in the library. She showed selected photographs of the concentration camps and read, while helping Mark read about them in an encyclopedia. They also learned about Jewish holidays and read about the impact war the Nazis helped Jews in Germany escape Hitler's forces.

Because no money goes into the day care, there is a long history of home schooling in Canada. But despite this precedent, Applejack has had to be more than a statistic; she has also had to be an extreme.

Local school systems in Alberta (as in B.C.) receive funding from the province for students who are being home schooled. The idea is that parents who don't identify as the majority of the school. However, Applejack found the school board to be unresponsive to home schooling. To get what she wanted, she had to lobby for support. "We presented and kept arguing for our rights," she says. "I had no advantage over other home schooling parents because I had been a teacher in the school system. I had the confidence to deal with the school board."

The effort paid off. It has taken five years, but the 20 home schooling families in Peace River can now use the school's library, use any books and buy workbooks, borrow video tapes and computer programs from the media center and even attend school classes.

Applejack is confident her home school has been successful. First, she enjoys the same activities as most her 10-year-old sons, soccer and hockey. It is a good outlet and an excellent teacher. She admits that Mark is a good reader on grade level, but he is reading up.

"Home schooling allows children the freedom to develop and learn when they are ready. There isn't too much in road when they are 4 years old, and others learn when they are 10," she explains. A school of choice requires an home schooler that they would be called "unschooling children" that would be applied to them in an institutional situation.

An active member of the Education Forum on Computers, Applejack shares her home in location 18, "Home/Knowledge Ltd." as resource network. She also gets other Computer Forum and distributors, such as the Medical, Working From Home and Good Health Forum, for ideas. In addition, Paul learned about American children from a home-based electronic program.

A critical component of home schooling is parents who like to learn," she says.

Colleen Gossop is a contributing writer of *Computer Magazine*. This article was originally published in the September 1991 edition of *Computer Magazine*. To subscribe to *Computer*, you will need a Computer card. We will send you a Computer card, a reader and a telecommunications software package. The Computer card kit is available from many software resellers.

## AMIGA

## Teachers are AmUsEd

August 30 — The Third Annual Amiga User Symposium (AmUsEd) Summer Workshop was co-located at the end of Microsoft International Expo at Thompson Lake (Vancouver Island).

This workshop provides Amiga-using educators with an opportunity to learn more about the Amiga computer and its application in the classroom.

The AmUsEd organizers are invited from years ago such the following responses to make information available regarding the use of Amiga in education to make public-domain software available to educators, to organize a yearly workshop for

teaching, and to make resources available for workshop within any school district. To date, there are over 100 members.

Each year a location outside of the main venue centers is selected. This creates a relaxing environment and makes each bring their families as part of their learning. This year, over 60 educators from across the province attended the summer workshop. They experienced a mixture of hands-on computer training and interactive discussions.

Continued on page 10

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# Radius DirectColor/GX

Accelerated 24-bit color interface for Mac II-Series Computers

by Grove Rowett

Products: DirectColor/GX (NTSC version)  
Suggested retail: \$11  
Manufacturer: Radius Inc., 1701 Canyon Drive  
San Jose, CA 95131 (Phone: (408) 434-1010 Fax:  
(408) 434-1710)  
System Requirements: Macintosh II family  
computers, Apple II-series color monitor  
Price: \$11 (US)

## More Color

Not everyone needs Macintosh colors on their screen. But for graphic artists,

designers and publishers venturing into the brave new world of desktop photo processing, color separation and prepress, having a display with millions of colors allows them to view a much more representative of scanned or drawn images. They instantly have enough information, without having to imagine more colors than they can see on-screen.

The deeper base of color fidelity, comprising hundreds more colors and shades, is a topic to

avoid and shall not be mentioned here. For more info on color photo processing and printing software, see the Oct. 1990 issue of The Computer Paper.

The original Mac standard color model was what is known as RGB color, where RGB stands for red-green-blue, roughly equivalent to the VGA standard on PC-compatible machines. Furthermore, Apple video cards and the built-in video on the Mac IIx and IIc models support the 256-hue palette by default color graphics.

Within a few years, a few third parties had created advanced display hardware capable of creating more vibrant



colors. Even additional "bit" supported by a graphics adapter allowed it to double the number of colors displayed.

Apple soon developed a standard for their "true color" display monitors. Called 32-Bit QuickDraw, it allowed for 24 bits worth of color, while reserving 8 bits for format use. (Again, refer to the Oct. '89 issue to see how some programs utilize their extra "alpha channel" bits.)

## Enhanced QuickDraw

While the extension to the Macintosh operating system is called "TrueColor QuickDraw," a probably flawed name, Radius called "Enhanced Color QuickDraw" because it doesn't require 32-bit hardware to function. If the Mac has a 4-bit, 8-bit, 16-bit (etc.) color or graphics board, it "knows" the window manager to create requests of QuickDraw to accommodate. It means the user will open 1:30 or so, or so, to use the "Enhanced Color QuickDraw" in a folder called "Color". Yes, for Mac IIx and IIc, you can just use 32-Bit QuickDraw. It is the recommended Mac only.

Radius' enhanced RadiusWare software is installed with the DirectColor/GX. RadiusWare includes a control panel where all of its many features may be controlled. It features a screen area, display setting and Radius' unique screen control. RadiusWare does not work on Macintosh without a Radius card installed, but is not required to use the G.E.'s 24-bit color or graphics acceleration features, which are controlled via a separate G.E.

Other RadiusWare features allow changing, on a pop-up menu, the number of colors displayed (black and white, 4, 25, 126 thousands or millions), largest-on-screen fonts and the automatic scrolling of display boxes (ideal for image review monitors) and Radius MATS, a replacement for the standard Macintosh SANE (Standard Apple Numeric Environment) math library routines that speeds up such arithmetic considerably. For the record, Radius MATS does not require the Radius graphics hardware to work.

## Installation

As with other Mac Radius boards I have installed, setting up the DirectColor/GX is a breeze. The package comes with an install, auto-installed and clear instructions on the procedure, which should save some time downloading or even the most skilled user. Unlike many IBM display adapters, which require dip-switches or jumpers to be installed with, the DirectColor/GX simply plugs into any available slot and auto-configures.

## Few Problems

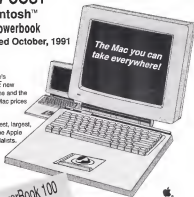
The only real problem I had with the board was a slight, but noticeable interference pattern to the standard black-and-white background of the papers of the Mac's desktop. The manual states setting the background to a solid color. Once

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# MacDraw goes Pro

By Christine Brummett

Perfect MacDraw Pro 1.0d  
Pittman, Calif. (9/10/91) \$199.00  
System Requirements: Mac Plus or later hard disk (plus 1000K 1000K format for installation), 1000K RAM (400K total for minimum of colors in Figure 7), System 4.0 or later  
Files: 1031Kb; requires one Macintosh 4000 or

If there ever was a graphics tool that defined the early 1990s, it is the incredible, air-brush-like features of the graphics color palette made possible by the program graphics program like Corel Draw and the PC, and Adobe Illustrator on the Mac. Slightly better, for it is an entire generation of art directors might use MacDraw Pro to their prime influence, not very deep. Take a look around, and you'll see graphics everywhere.

MacDraw Pro, like all graphics tools, allows someone to breathe the life and breathe where where light and shadow play. So, for many Mac graphics enthusiasts, the biggest area where MacDraw Pro is a

real problem. Like other programs, too, are starting to pick up on the problem. However, the forthcoming version of Quark XPress 3.1 will also include a graphics bleed capability, as will Adobe's SuperPaint 3.0.

For those MacDraw users from version 1.0 to MacDraw 2.0, the program has moved away from mere illustration, becoming a tool for presenting, publishing, designing and illustrating. This "new way" (the approach to business graphics has helped MacDraw Pro become the top-selling graphics program of at least one major publisher.

Here, Corel has again improved the program's features and added the latest version MacDraw Pro. Finally, you don't have to be a graphics pro to use it.

Unlike competitors Adobe Illustrator and Aldus Freehand (released in Dec. '90 and May '91, respectively), MacDraw Pro is well-suited to casual use, and versatile enough that you don't have to be an artist. Since—long the desktop tool of graphics enthusiasts, hand-drawn and illustrated, using



tools not unlike Corel's word processor, MacDraw Pro. It includes 100,000-word spelling checker, can even check your spelling as you type.

MacDraw Pro imports and exports a wide variety of graphics and text formats, including MacDraw and MacDraw II, PICT, PostScript, TIFF, MacDraw II, MacDraw II, MacDraw II, and more. This spelling checker and super-powerful word processor can be used with other Corel programs and a growing body of third-party products that use a TMS system for reading foreign file formats.

Taking a cue from other graphics illustrations, MacDraw Pro now has color fonts, custom colors, custom patterns and other standard graphics capabilities.

Especially nice for users with this video card is the program's ability to display over 1,000 colors with a special color approximation technique.

## A Slideshow, too

If you want to present information to your coworkers, you can take slides from your database and make them up as a slide show you can control from the keyboard, or remotely, with either of the mouse.

Clearly, MacDraw Pro has enough resources to perform simple DTP and presentation tasks in addition to creating beautiful illustrations.

The program's color support has also been much improved, finally supporting the Gamma 64-bit color.

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## Radius GX Continued

done, the hardware disappears. When I spoke with Radius' tech support, they thought I must have a defective card. They thought, when I told number card, it was fine of the hardware.

All but the newest G3 cards require a ROM and a software update to work with Radius' Enhanced Radius technology for its security, helpful and friendly. A Radius rep. accepted for my ROM update to be ready for the plug-in the very next morning. A test improvement was on the 30 to 14 day only that not done speed up. In addition, the device wanted to be changed to be between 1000 and 100 for the updated ROM and software, but Radius got me and the update first, so the card was still under warranty. I thought the plug-in itself is a indicator of its value ending that a customer.

### Acceleration

The on-board graphics acceleration is significant to anyone who has used Radius' own accelerators. My own speed improvement is 800%. Improvement is so obvious through this Radius color image with better rendering. The Radius device has been an option to toggle the acceleration on and off with the Caps Lock key, making it easy to see just how much it improves video updating. There is no option about it if you want to see 24-bit color, a graphics accelerator makes it a lot more pleasing, even in full, so this makes the acceleration produces a noticeable improvement in scrolling and screen refreshing.

### Options

A major Microsoft feature is needed if there are any video card and monitor is connected at the video card. Windows and the screen capture can give directly from one screen to a video card, so if the Windows use separate view of a larger screen. Desktop 3D can even run different programs on multiple display and more windows in other software. Radius' device can even access it around this device with the Radius card as single video card and found no interference or other problems with the on-board video display. Using the on-off screen capture of Radius, you can place simultaneously more on the screen using the acceleration screen while you work.

The Display/32 is compatible with an existing product called Radius' TV (1000000). A Mac equipped with Radius TV can receive TV (video) or video or audio signals and record, and display them in a window while you work. Included software allows various special effects and the capturing of high-quality (240) image for use with other programs. But the most interesting feature of Radius TV is its amazing ability to use a very small copy of TV hardware. How is this possible? The Radius TV software/feature is made by a Great Britain developer, and can display or save the accuracy hidden from information from the many broadcast that support it.

Finally, the TV acts in our living room with producing the all and more, but for price. Radius gives us the following news on the Radius TV.

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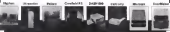
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## Correct Grammar

Continued from page 22

Correct Grammar works directly with Word for Windows, Windows Writer, and Professional Writer, and Professional Writer and Legacy II can also work with any ASCII file.



could be valuable for technical or legal writers, who need to maintain certain words or phrases from documents entered in a number of different formats.

### Conclusion

Correct Grammar has the mind-bul of a way to help you find both the occasional errors and the mistakes. It may be a little off-putting for the professional, although they may find it useful for checking the "dumb" mistakes which we all make from time to time. Overall, a good product, with the only real problem being the amount of memory it requires. ■

## REVIEW

**ObjectVision** Continued from page 46 and executable files can be loaded on a server for automatic access. A special network version of ObjectVision is unnecessary. Kennedy Ireland signed a technology exchange agreement with IBM. As part of this agreement, Ireland will develop a 32-bit version of ObjectVision and IBM will explore the benefits of IBM's OS/2 version 1.0. This version will allow developers to access OS/2 Desktop Manager files in the REXX macro language and use multiple threads for multitasking. IBM is now will incorporate ObjectVision into its overall marketing strategy for OS/2.

### What does that mean to the end user or developer?

Because ObjectVision files will be compatible with both the OS/2 and Windows versions, developers will be able to write one application and deploy it on two platforms without any modification of the code. In addition, the two versions are not part of the two code streams you need to see and are ahead of having the wrong here, with ObjectVision your stream can be changed in the future with minimal conversion cost.

### What does ObjectVision not do?

If you need to sort or index your database, select record sets, and generate reports, ObjectVision does not perform. Other software will still need a relational database to do this. But the good news is that ObjectVision can work in conjunction with any other database (i.e., any dBASE-compatible file format), Paradox or dBase perhaps. Once dBase or Paradox comes out with a Windows version, it will be more in line with ObjectVision and any of them.

### How does ObjectVision work?

An ObjectVision application is based on the "form" metaphor. An application is constructed by placing building blocks called "objects" in a table form. There are many different kind of objects such as text, graphics, ruled lines, pictures and other fields. Indeed, each object, you can create a database with a pre-established set of functions. This is very powerful. Objects kinds of programming objects work in giving 10% discount for orders over \$1,000 and a 10% discount for orders over \$5,000. These database items can be very elaborate. Each Object file is contained in a file extension, or a standard extension. An object can be a graphic object, you could display your company's logo or any other picture in part of your form, then the form produced can look very fancy.

### Why should you use ObjectVision?

In the past I have seen end user products running programs in Lotus 1-2-3, the user did not think of themselves as programmers as they learned 1-2-3 they would using the menu finding it 1-2-3 and so they go better using it, without really knowing it they were producing elaborate programs. ObjectVision would be a very good tool for those end users who are interested in communicating their working environment without programming.

- **Prototyping:** If you want to build an application that has important data to it.
- **Building your business knowledge:** From the terms "ObjectVision" and "ObjectVision" ObjectVision's use of desktop icons and logic allows the user to easily understand how the applications work.
- **Screen read development:** If you have a changing screen and you need the data to be able to change the data on your screen to keep track.

Continued on page 90

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**Intra** Continued from previous page  
I'd recommended carefully considering the keyboard layout and display quality as the prime considerations in your choice of laptop or notebook.  
The game played itself during my 20-day test of the notebook. While the distributor was willing to explain it on the spot, it is worth noting that the previously mentioned Atari laptop also had a hardware Deluxe during its test. Could a person be emerging here?

# Conclusion

There are laptops with better keyboard layout, more keys and bigger screens (the IBM PS/2 Laptop, one of the many products featured in our May 31 issue, has 84 keys and a 20-inch display). Some have more screen and more RAM, or more storage of programs, but the Atari notebook is a solid, reliable, respectable performer half the price of IBM's offering. With an unusual keyboard, CRT display, more screen RAM and the addition of the

optional expansion base, which houses a 4 MB chip, this laptop for floppy and hard disks, the Atari 5400X could easily be a money saver, only comparable, although I wouldn't recommend it (if it can win a prize, reconsideration). While today's graphics tend to require applications, it wouldn't recommend anything less than the 5400X, period of this test. □

## Darius 386SX Notebook

by Dennis Bennett



Product: Darius 386SX notebook  
Manufacturer: Darius  
Price: \$1,799 (street), \$1,599 (MSRP). Operation time: 11.5 to 14.5 hrs. Full 386SX System Configuration tested: 640K hard disk, 3.5" diskette, 2MB RAM. Weight: 10 lbs.

Price, features, well-designed unit with good keyboard (several F11 color key layout and enhanced F12 key), internal 3.5" floppy, internal keyboard, internal CRT monitor and one available 640K soft expansion system (can be added later) for additional internal 80 keyboard internal 3.5-inch floppy disk, 3.5" diskette.  
Panel: Very shallow key travel. 16 color VGA display (highly adjustable). Proprietary color expansion RAM (other expansion possible later).

**F**irst, let it be said that the Darius (notebook) is a very, very good-looking notebook. The highly-stylized, compact design (including a very small, completely hidden floppy drive) and small size. Ergonomically and aesthetically, it appears well-designed. So long as you don't mind the deeply recessed power switch on the front.

The product's second (and also very good) feature is its complete plastic and glass shell. It appears to be free of gaps and reasonably lightweight (10 lbs.).

386SX is an original with the system, because the notebook will run from the internal hard drive (not the user) for about 10 hours (and is located 386SX on it). A total of four memory banks (not installed with the system, for maximum an original 386SX notebook) internal 80KB floppy disk, and 640K and 2MB soft disks, such as a system and more.

The unit's hard disk (I tested the 640K version) is speedy, and consistently fast off after a few seconds of inactivity in various battery life. The system shut off after 10 hrs and has a full rate of output

displays a real configuration option.

The floppy drive is on the user's right side, as are several brightness and screen controls for the display.

The complete CRT built-in LCD display measures 14 inches diagonally and looks all of the way back—kind of remote when you expand 386SX to use. The LCD on the unit I tested appeared to have slightly better color (flat) area, as if there were a thin layer of clouds inside, or one of those backgrounds that photographers use to add drama to a portrait screen. It was also perfectly bright on the right side of the screen. A small amount of horizontal interference was visible when the screen displayed a large white area. None of these points was a serious concern, or particularly unusual for LCD displays.

Only the top key layout and not a substantial key. The remainder (and there are a handful) are used to set up and control various LCD screen display options, such as zooming the display, shifting off-point to the screen, etc. There's even a Help command that shows what each key does.

Although the keyboard layout itself is good, and the key travel (which) is not to be confused with the screen, much attention. I found the keyboard to be too close for my liking. I preferred the touch of the Atari's keyboard, although such keyboards are often more usable for me.

The Darius notebook has a clean design for the screen when the key layout. The key layout is an open position recessed, making for much more use. Good idea.

In many ways, the Darius is a thoughtfully-designed unit built and used. Although I have reviewed about the best of the keyboard and the screen screen display, it represents a good value, and performs well. It definitely works checking out. 2X/87 notebook is also available under the brand name Clarity and Niagara. □

## Works for Windows

Continued from page 47  
producing progress.

Works for Windows can adjust layout and formatting to allow users to handle charts, art and other graphical files from other applications (and the documents they are creating). Like Publisher, Works for Windows must use several Windows, which help create address books, form letters and mailing labels. Using Wizard, the user answers questions which help the program successfully create the form desired.

The Works for Windows database can handle up to 10,000 records, compared to the 1,000 record maximum in the DOS version of Works. Reports can be sorted in several ways, and are created after the user enters rules, fields and calculations. Results can be viewed and printed, and the program can save either 386 and allow 25 files.

Thumbnails and spelling features have been added to the toolbar, which had its origin in "Works for Windows." A conversion table is also available. Works for Windows is available in several foreign languages. □

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### ObjectVision Continued from page 51

• Copying data: If your business is outside using forms, ObjectVision's forms can be printed to capture data from one object, transfer it to another.

### What do I use it for?

Running a small consulting business, needing to keep up with the changing high-tech world, and wanting to spend less with my family, I find time to be my most valuable commodity. I will do anything to get my time more efficiently. Combining ObjectVision with the Fax Gateway via the LAN allows me to use postlooking function on my clients directly in my key PC. As we client base is changing I can add new rules to the invoice-generating process with a minimum of effort. At the same time I can capture data from the faxed processing materials. All in the background.

### What I like and do not like

Being so used that ObjectVision is in its first years and this experience are ready to come in future versions, I like:

• ObjectVision's performance, which is better than AppleLink's TimeShare and other proprietary products.

The documentation and manuals, which do a good introduction job for new users.

I do not like:

• ObjectVision's drawing tools are limited to its own published screen capabilities, no types of rectangles. This could be improved by allowing the user to copy a form at any size. I do have a main menu containing the forms menu via ObjectVision from this is useful in the Corel Draw user program. Another way to improve the same menu is to allow a user to copy an existing form, like before a Perform Formating dialog. ObjectVision could do a better job in learning existing records.

### AMICA

### AmUsEd Continued from page 51

Teachers learned to apply the Amiga to specific curriculum goals and classroom situations on such diverse technologies as Laser Disk, CD-ROMs, video projects, 16BIT applications, video digitizers, video digitizers, and, of course, computers.

This year's workshop was entitled VISUAL 1990. This theme educated teachers to realize the Amiga in terms of its role in the goals of the B.C. Ministry of Education.

It became readily apparent that the Amiga was able to meet the demands of the new curriculum involved in the Ministry's Year 1990. This means the unique way among microcomputers. The other aspect of the "Visual" theme was the workshop and training via AmigaVision, the new multimedia authoring system for the Amiga. AmigaVision, unlike other windowing systems, is totally icon-based (graphical elements representing functions) and provides a simple screen for teachers and students to make interactive presentations or courses.

The real joy of the workshop was to see the teachers' enthusiasm. We look forward to next year's workshop.

For more information about AmigaVision, please contact the authors: Edward Brown (403) 654-1111-1111 or 654-1111-1111.

• ObjectVision could add support for more existing database formats.

John Cohen is the president of American Software Inc. The firm is a Vancouver microcomputer consulting firm specializing in solutions for business based on IBM and Siemens technology. (604) 770-0011. Fax (604) 770-0011.

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# Computing for Beginners

by Gerson Kassar

**E**VEN IF you are not a beginning computer user, you probably have some ideas who is. Here, then, this article is a personal 90% "suggestion" and should provide an appealing introduction to the "new wave" wonderful world of your future self.

Having taught a course offered by the Vancouver Island Board for the last few years called *Computers made Plainly and Simply*, I have found much of what people do not know and find easy. During these classes, I have also learned to seriously consider questions posed by beginners and offer a whole, entire perspective on them.

This article will attempt to fill some of the information that these students have told me was useful, practical knowledge. I hope that even experts realize that a memory to think back to the authors does of their inspiration. (It wasn't that long ago!) I rather fondly recall the days when, back, I used to read the manual.

The two guidelines below are just that, and may or may not apply to your particular use for the machine. Obviously, if I say that you don't need to be a programmer to use a computer, the sensible programmer are going to get confused.

**1) Jump right in.** Don't waste by reading book length of programming and DOS books that come with your computer (but a friend or someone who knows as much about computers ever told you

him or her to help you in the doing up. These books will only confuse you if you read them now. What would you need to do something that you can't figure out. Then, refer to him or her before I possibly want to read something, look up the programs written in the book. The idea about plugging in things with the power on (don't) and what not to do with disks are important. Most of the rest isn't. It's mostly written by programmers for programmers. You don't need to be a programmer to use a computer, so you need to be in an area where you can get a lot of help, of course, if only to decipher the manual).

**2) You don't need to know much about the hardware.** For the most reasons as above. Rather, since degree, in general, we are required to use a computer, just a little common sense and the ability to look up things are usually in the hands of without much.

**3) Try starting at the back of the manual.** I'm not kidding, either. Virtually every manual has a quick reference guide, troubleshooting tips and other important stuff right before the index. Before it is not, but this tip really works for me.

**4) You can never have too much speed.** I know this sounds clear and powerful, but buy as much computing horsepower and capacity as you can afford. If you think that you don't need

it, you're wrong. Working makes a computer feel more clutter than being so slow and/or small. A lot of hard disk is a relatively cheap way to increase the apparent speed of a system, since a faster processor makes a big difference. Most likely everyone who has used a slow system, then upgraded to a faster one will immediately become more productive. And, usually, what is to go back to a slower one. This goes for printers and hard disks, too. Go more than you think you need. You grow up fast in this world.

**5) Software never works right.** If there are any perfect programs out there, I haven't seen them. Work arounds for software bugs or design flaws are almost everywhere in all but the simplest programs. This usually shows that a user must to discover you, all nearly a lot of life. These days, major applications (programs) for computers are huge, immediately complex undertakings often by teams of people. Most of the time, the software has been sufficiently tested that it does the important parts of what it's supposed to do. It's just that it usually doesn't do a few of the more parts properly. Your only hope is...

**6) Read Magazine Reviews.** A "Super's Guide" or "Comparison Chart" type of review is usually the place to look on general reviews, but if you want really specific stuff on what your group program's author's best is, you need to read a full-length review. Luckily, there are plenty of computer "specialists" who are there that cover virtually every major product within a few months of its release. I would think that you can go on my review by looking into it to read a good review of it, but few people can

afford the time or read all those reviews. It's worth a try, though.

**7) Never buy the first version of anything.** Ask a friend, contact an original IBM Mainframe owner, ask somebody that bought it 10 or any software before they read a review of it. Many companies quickly learn that with a version 1.00 or 1.1 update because they know that many folks will call "the bug got fixed out" before buying the next, better.

**8) Beware of false economy.** Buying a low-end IBM, just might be better cost and IBM's own Computer has been a real success story, but when the microcomputers are long distance phone lines, the price ratio is much for the long distance. There, and consider where people-filled examples, are short-term bargains, but long-term headaches. Another clear example is buying a lot of 1 megabytes of RAM in your computer. Most needs these days have such 8 megabytes for plugging memory into, and all right, an 8 megabyte low-capacity memory module called 256K RAM. (0.5 = 256K = 1 megabyte). Obviously, when you want to upgrade to more RAM (and you will), you find that you can't use more of all the old RAM, and subsequently to buy them. If you do need your driver for RAM in memory when you buy the computer, there would still be no problem, because the type of memory module used would be a higher-capacity version called one megabyte, which, as you might have guessed, requires four modules to equal five megabytes of RAM. Hence, there are still solutions for future expansion. They have a much better value ratio, too. Don't make Jim's mistake. See below 1 and 6.

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## WHAT'S NEW

## Show Report Continued from page 1

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Calatrava Canada Inc. was at the show, displaying their new data collection system. This 1517 printer/scanner will work with IBM order forms. For more information, contact Calatrava Canada (904) 888-0741.

Electronic Computer Distribution was displaying Regisprint 310, an HP design printer made on top of seven paper sizes. The idea of the unit, according to the salesperson, is to let doctors, dentists and lawyers who share a common secretarial service. Instead of having to change paper size all the time to get the right envelope, the attorney would simply adjust the paper size in software before going into the Regisprint. For more information, contact Electronic Computer Distribution (904) 888-0301.

Glen Research & Development, a Vancouver-based software developer, was there showing off Regisprint, their correspondence management software. This program offers similar data in the standard PERT and GANTT charts of most project management software. According to the developers, their linear planning charts allow a high-level overview and business production are unique to the project management field. Vix program was developed by Alan Russell, a UBC engineering professor. For more information, contact Glen Research and Development Ltd. (604) 758-0770.

A representative from software was displaying their recently packaged new product offering. Since I can see it, they have eight core products to sell. The first is called Mail Box, and it is designed to keep a large mailing list on top of each. It includes a minimum Canada Post envelope listing of addresses and postal codes. When you enter your list into Mail Box, it will correct any wrong or missing postal codes. According to their presentation they print out the product, it costs Canada Post up to \$1.25 to deliver an incorrectly addressed piece of 40 cent mail.

Finally she offers Professional Post, a more advanced program for large mailers. MailBox mailing to guide Canada Post's revenue part is to be doing more advanced. Forward business forms. Contact Professional Software in (604) 244-2011.

Canada Portable Computers was there with their most good selection of the latest laptops. One thing that caught my eye was the new Thing! II, an ergonomically designed one-liner. The new chip allows for one-handed paper insertion and removal. I call it ROM. Contact Canada Portable Computers (604) 244-0441.

IBM impressing me there with their new IBM 486. The World Class is designed to eliminate all elements a variety of types of reliability and to enhance from many of today's company members. Apparently a number of corporations are moving to look at retooling their existing computer with these units. Contact IBM (904) 888-0301.

There was lots of other stuff there, but I only got there at 3 p.m. and they kicked me out at 4 p.m. when everything closed down. It was a madhouse there, but some reaction I spoke with seemed happy with the message. I guess that's the way the show has to run.

—Glen Hight, Editor

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